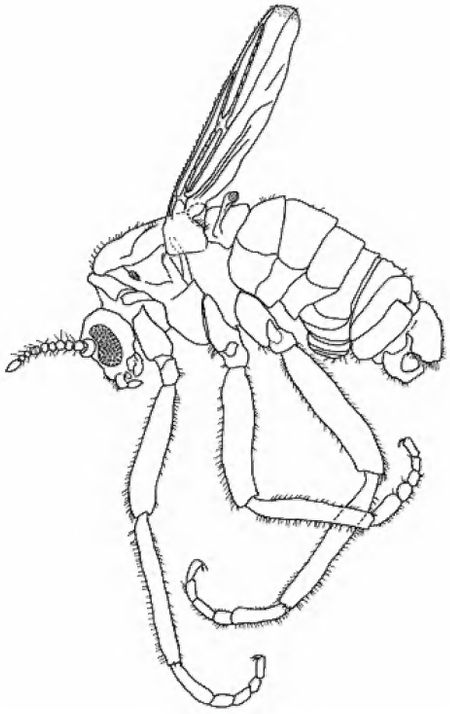
A WORLD CATALOGUE OF CHIRONOMIDAE (DIPTERA)

PART 2. ORTHOCLADIINAE (SECTION B)

compiled

by

Patrick Ashe and James P. O'Connor



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PART 2. ORTHOCLADIINAE (SECTION B)

compiled

by

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Cover illustration: adult male of *Metriocnemus* (*Crymaleomyia*) *brunneri* Ashe & O'Connor, originally described on pp 25-34 of Hoffrichter, O. (ed.) (2000) *Late 20th century research on Chironomidae*. Shaker Verlag, Aachen.

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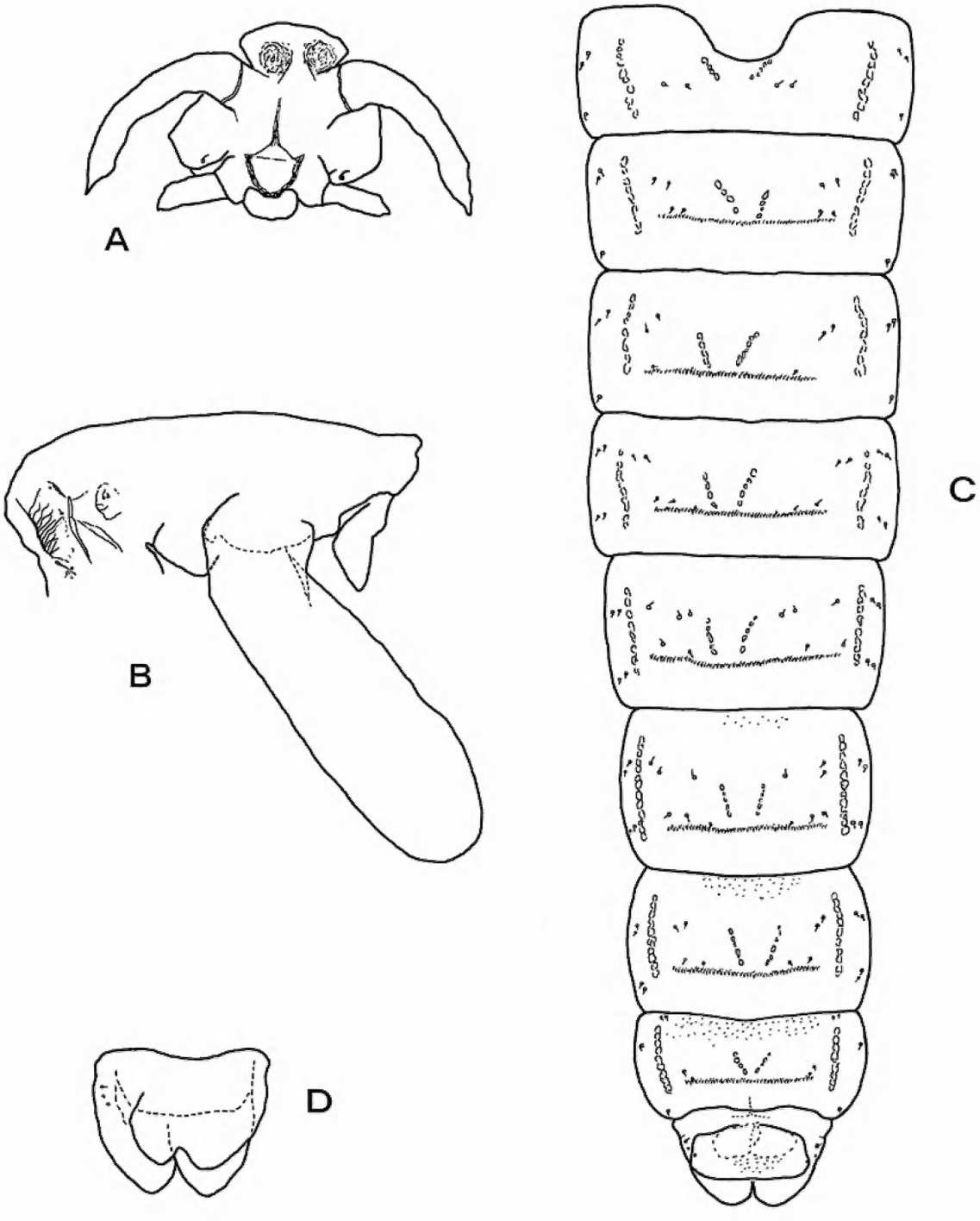

FIGURE 6. Pupa of *Metriocnemus* (*Crymaleomyia*) *brunneri* Ashe & O'Connor, from 5,000 metres in the Karakorum Mountains, Pakistan, described on pp 25-34 of Hoffrichter, O. (ed.) (2000) *Late 20th century research on Chironomidae. An anthology from 13th International Symposium on Chironomidae*. Shaker Verlag, Aachen. 661pp.

Genus **PARAMETRIOCNEMUS** GOETGHEBUER

PARAMETRIOCNEMUS GOETGHEBUER, 1932: *Faune de France* **23**: 22 (as subgenus of *Metriocnemus* Wulp, 1874). Type-species: *Metriocnemus stylatus* Spärck, 1923, by monotypy.

aduncus CHAUDHURI & BHATTACHARYAY in CHAUDHURI, BHATTACHARYAY & DUTTA, 1989: *Oriental Insects* **23**: 314 (*Parametriocnemus*). Type-locality: "INDIA: West Bengal: Darjeeling". — Distr.: **OR**: India (West Bengal).

arciger (KIEFFER, 1925): *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 382 (*Metriocnemus*). Type-localities: [Czech Republic] "Tchécoslovaquie" [= Czeckoslovakia]; [Germany] "Ile de Rügen" [= island of Rügen]. — Distr.: **PA**: Belgium, Czech Republic, Germany.

biappendiculatus MAKARCHENKO & MAKARCHENKO, 2006: *Russian Entomological Journal* **15**(1): 91 (*Parametriocnemus*). Type-locality: {Russia, Far East} **Chukotskii poluostrov, zal. Kresta, ozero Seutakan** [= Chukotskiy Peninsula, Kresta Bay, Lake Seutakan]. — Distr.: **PA**: Russia (Far East).

boreoalpinus GOWIN & THIENEMANN, 1942: *Zoologischer Anzeiger* **140**(7/8): 105 (*Parametriocnemus*). Type-localities: "im Abiskogebiet in Schwedisch-Lappland . . . im Abiskojokk" [= in the Abisko region in Swedish Lapland . . . in the Abiskojokk]; "in einem kleinem bach, der in den See Vassijaure mündet" [= in a small brook, that runs into Lake Vassijaure]; "auf dem Torneträsk" [= from Torneträsk]; "dem unteren Kårsavaggesee" [= the lower Kårsavagge Lake]; [Austria] "Im Lunzer Seengebiet . . . in dem gleichen ersten Forellenteich . . . wie *Diplocladius lunzensis*" [= In the Lunz lakes region in the same first trout pool . . . as *Diplocladius lunzensis*, i.e. "Lunz (Niederdonau) . . . in dem obersten Forellenteich zwischen Biologischer Station und Lunzer Untersee"] [= Lunz (Lower Danube) . . . in the uppermost trout pool between the biological station and the 'Lower Lake' at Lunz]. — Distr.: **PA**: Austria, Belgium, Finland, France, Great Britain, Italy, Mongolia, Morocco, Norway, Poland, Russia (East Siberia, Far East), Slovakia, Spain, Sweden. [**Note**]

brundini (SINHARAY & CHAUDHURI, 1979): *Entomologica Scandinavica Supplement* **10**: 119 (*Parametriocnemus*). Type-locality: "India, West Bengal, Darjeeling Govt. College". — Distr.: **OR**: India (West Bengal).

capensis (FREEMAN, 1954): *Proceedings of the Royal Entomological Society* (B) **23**(9/10): 173 (*Metriocnemus*). Type-locality: [South Africa] "Berg River, Assegaibos". — Distr.: **AF**: South Africa, Togo.

eoclivus SÆTHER, 1969: *Bulletin of the Fisheries Research Board of Canada* **170**: 108 (*Parametriocnemus*). Type-locality: [Canada] "Notch Road Spring, Gatineau Park, Que." [Que. = Québec]. — Distr.: **NE**: Canada (Québec), U.S.A. (North Carolina, Tennessee); **PA**: Italy.

famiheius (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 57 (*Gymnometriocnemus*). Type-locality: [Introduction, p. 16] "Japan . . . in the zoological garden called Toyama City Family Park on the foot of Kureha Hill"; [p. 47] "at the side of Rokusen Lake" [= Lake B, p. 16]. — Distr.: **PA**: Japan.

flavellus (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 504 (*Metriocnemus*). Type-locality: [Federated States of Micronesia] "Agric. Exp. Sta., Colonia, Ponape". — Distr.: **OC**: Federated States of Micronesia. [**Note**]

fordi (FREEMAN, 1956): *Bulletin of the British Museum (Natural History)* Entomology **4**(7): 301 (*Metriocnemus*). Type-locality: "UGANDA: Kigezi Province, summit of Mt. Sabinio, 11–11,500 ft.". — Distr.: **AF**: Uganda.

fusiger (KIEFFER, 1911): *Records of the Indian Museum* **6**(5): 346 (*Metriocnemus*). Type-locality: [India, Himachal Pradesh] "Himalaya occidental: Simla, à une altitude de 2340 mètres" [= western Himalayas: Simla, at an altitude of 2340 metres]. — Distr.: **OR**: India (Himachal Pradesh).

graminicola (LUNDBECK, 1898): *Videnskabelige Meddelelser fra Dansk Naturhistorisk Forening i Kjøbenhavn* **5**: 278 (*Chironomus*). Type-locality: "Nordgrønland i Sydostbugten" [= northern Greenland in Sydostbugten] [Lectotype designated in Oliver, 1970: *Entomologica Scandinavica* **1**(2): 105, "Kangersuak,

Greenland"]. — Distr.: **NE**: Canada (Alberta, Northwest Territories; Yukon Territory), Greenland; **PA**: Russia (Far East).

hamatus (JOHANNSEN, 1934): *Journal of the New York Entomological Society* **42**: 349 (*Metriocnemus*). Type-locality: [U.S.A.] "Ithaca, N. Y." [N. Y. = New York]. — Distr.: **NE**: U.S.A. (Connecticut, Florida, Maine, New York, North Carolina, Ohio, South Carolina).

isigageheus (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(1): 9 (*Metriocnemus*). Type-locality: {Japan} [p. 4] "Ishigaki Island"; [p. 9] "on the slope of Mount Omotodake". — Distr.: **OR**: Japan (Ryukyu Archipelago).

kamidenticularis (SASA & HIRABAYASHI, 1993): *Japanese Journal of Sanitary Zoology* **44**(4): 375 (*Pseudorthocladius*). Type-locality: {Nagano, Japan} [p. 362] "Kamikochi"; [p. 375] "at (H)" [= Nishiitoya Hotel]. — Distr.: **PA**: Japan.

kurilensis MAKARCHENKO & MAKARCHENKO, 2006: *Russian Entomological Journal* **15**(1): 91 (*Parametriocnemus*). Type-locality: {Russia, Far East} **Kuril'skie ostrova, o-v Ketoi** [= Kuril Islands, Ketoi Island]. — Distr.: **PA**: Russia (Far East).

kurolemeus SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 27 (*Parametriocnemus*). Type-locality: [Japan] "at the side of Kuroyon Dam". — Distr.: **PA**: Japan.

lundbeckii (JOHANNSEN, 1905): *Bulletin of the New York State Museum* **86**: 302 (*Metriocnemus*; as nom. nov. for *Chironomus nanus* sensu Lundbeck, 1898 nec Meigen, 1818). Type-locality: "Southern Greenland" ‖►Type-locality: "sydlige Grønland; Ipiutat i Tunugdliarfikfjord, Ivigtut" [= southern Greenland; Ipiutat in Tunugdliarfikfjord, Ivigtut (now Ivittuut)] in Lundbeck, 1898: *Videnskabelige Meddelelser fra Dansk Naturhistorisk Forening i Kjøbenhavn* **5**: 285-286◄‖. — Distr.: **NT**: Guatemala, St. Vincent; **NE**: Canada (Alberta, Ontario, Québec, Saskatchewan), Greenland, U.S.A. (Alabama, Arizona, California, Florida, Georgia, Michigan, New Mexico, New York, North Carolina, Ohio, South Carolina, Texas); **?PA**: ?Romania, ?Russia (CET).

innocuus (CURRAN, 1930): *Bulletin of the American Museum of Natural History* **61**: 33 (*Metriocnemus*). Type-locality: [U.S.A.] [p. 21] "Harriman Interstate Park . . . near the southern end of the park about three miles from the village of Tuxedo, N. Y." [N. Y. = New York].

ornaticornis (KIEFFER, 1917): *Annales Historico-Naturales Musei Nationalis Hungarici* **15**: 225 (*Metriocnemus*). Type-locality: [Australia] "N. S. Wales : Sydney" — Distr.: **AU**: Australia (Australian Capital Territory, New South Wales, Western Australia).

scotti (FREEMAN, 1953): *Proceedings of the Royal Entomological Society* (B) **22**(7/8): 129 (*Metriocnemus*). Type-locality: [South Africa] "Cape Province, Kirstenbosch". — Distr.: **AF**: Ethiopia, Kenya, Madagascar, South Africa, Uganda, Zambia, Zimbabwe.

seiryukeleus (SASA, SUZUKI & SAKAI, 1999): *Tropical Medicine* **40**(3): 111 (*Metriocnemus* (*Metriocnemus*)). Type-locality: [Abstract, p. 99] "Shimanto River, western Shikoku Island, Japan"; [p. 111] "at the side of Hiromi Branch River in Hiyoshi-mura". — Distr.: **PA**: Japan.

shoukouzoensis (SASA, 1989): *Research Report Toyama Prefectural Environmental Pollution Research Center* **1989**: 42 (*Heterotrissocladius*). Type-locality: [Japan] {Shou River . . . Toyama Prefecture} "at St. 2, Kouzo". — Distr.: **PA**: Japan.

stylatus (SPÄRCK, 1923): *Entomologiske Meddelelser* **14**(2/3): 96 (*Metriocnemus*). Type-localities: [Germany] "in Moosen in einem Bache bei St. Ottilien, Oberbayern" [= in mosses in a brook at St. Ottilien, Upper Bavaria]; "in Windachbach ebenda gefunden" [= found in Windachbach at the same place, i.e. at St. Ottilien, Upper Bavaria]. Senior primary homonym and senior synonym of *Metriocnemus stylatus* Kieffer, 1924 (below). — Distr.: **PA**: Austria, Azores, Balearic Islands, Belgium, Canary Islands, China (Beijing, Henan), Corsica, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Great Britain, Hungary, Ireland, Italy, Japan, Lebanon, Luxembourg, **?**Madeira, Morocco, Netherlands,

Norway, Poland, Portugal, Romania, Russia (CET, NET, East Siberia, Far East, West Siberia), Sicily, Slovakia, South Korea, Spain, Sweden, Switzerland, Tunisia, Turkey; **OR**: China (Fujian, Zhejiang), Japan (Ryukyu Archipelago). [**Note**]

stylatus (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 97 (*Metriocnemus*). Type-locality: [Germany] "Bavière : St. Ottilien". **Preoccupied**. Junior primary homonym and junior synonym of *Metriocnemus stylatus* Spärck, 1923 (above). [**Note**]

adzharicus KOWNACKI & ZOSIDZE, 1973: *Bulletin de la Académie Polonaise des Sciences, Série des Sciences Biologiques* **21**(2): 127 (*Parametriocnemus*; as subspecies of *stylatus* Kieffer, 1924). Type-locality: [Georgia] "Tshakvistskhali river on the locality of Khala (115 m altitude)". **Syn. nov.** [**Note**]

togaluridus (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 139 (*Gymnometriocnemus*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 139] "Toga River".

togabilateralis SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 155 (*Parametriocnemus*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 155] "at Momose". — Distr.: **PA**: Japan.

togabilateralis SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120 (*Parametriocnemus*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togadigitatis SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 155 (*Parametriocnemus*).

Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture". — Distr.: **PA**: Japan.

togadigitatis SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120 (*Parametriocnemus*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togavirgus SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 156 (*Parametriocnemus*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 156] "at Momose". — Distr.: **PA**: Japan.

triquetrius (CHAUDHURI & BHATTACHARYAY in CHAUDHURI, BHATTACHARYAY & DHUTTA, 1989): *Oriental Insects* **23**: 318 (*Paraphaenocladius*). Type-locality: "INDIA: West Bengal: Darjeeling". — Distr.: **OR**: India (West Bengal). [**Note**]

tusimouveus (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(2): 97 (*Metriocnemus*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 97] "at 4 different localities on Tsushima". — Distr.: **PA**: Japan. [**Note**]

tusimoveweus (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(2): 98 (*Metriocnemus*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]. — Distr.: **PA**: Japan.

tusimoxeyeus (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(2): 100 (*Paraphaenocladius*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]. — Distr.: **PA**: Japan.

valescurensis MOUBAYED & LANGTON, 1999: *Nouvelle Revue d'Entomologie (N. S.)* **16**(2): 155 (*Parametriocnemus*). Type-locality: "Valescure spring and ruisselet, upper stream of Real Collobrier basin, Var department (southern France),

altitude 250 m". — Distr.: **PA**: France, Morocco, Spain.

vespertinus SÆTHER, 1969: *Bulletin of the Fisheries Research Board of Canada* **170**: 119 (*Parametriocnemus*). Type-locality: [Canada] "large mountain stream, Rowe Creek, above highway to Cameron Lake, Waterton National Park, Alta." [Alta. = Alberta]. — Distr.: **NE**: Canada (Alberta).

zorinae MAKARCHENKO & MAKARCHENKO, 2009: *Evraziatskii Entomologicheskii Zhurnal* **8**(1): 121 (*Parametriocnemus*). Type-locality: "Perekatnaya River, Lazovsky Nature Reserve, Primorye Territory, Russian Far East". — Distr.: **PA**: Russia (Far East).

"*lundbecki* (Joh.) var.": SÆTHER, 1981: *Entomologica Scandinavica Supplement* **16**: 18 (*Parametriocnemus*). Locality: "442 m a.s.l., below waterfall, Majorca, Yambou River, St. Vincent". — Distr.: **NT**: St. Vincent.

sp. 1: ROBACK & COFFMAN, 1983: *Proceedings of the Academy of Natural Sciences of Philadelphia* **135**: 35 (*Parametriocnemus*). Locality: "PERU: BP 20" [= Río Chullumpi ó Cutimbo (Cutimbo) above Curacalla, SW of Puno, . . . alt. 3800 m]. — Distr.: **NT**: Peru.

sp. 2: ROBACK & COFFMAN, 1983: *Proceedings of the Academy of Natural Sciences of Philadelphia* **135**: 36 (*Parametriocnemus*). Localities: "VENEZUELA: VEN 6" [= Stream (third order) at bridge W of Santo Domingo along Barinas-Merida highway, alt. 3230 m]; "VEN 8" [= Santo Domingo River near elementary school "El Baho" along Barinas-Merida highway, alt. 2490 m]; "VEN 9" [= Santo Domingo River at highway bridge along Barinas-Merida highway, alt. 2620 m]. — Distr.: **NT**: Venezuela.

sp. 3: ROBACK & COFFMAN, 1983: *Proceedings of the Academy of Natural Sciences of Philadelphia* **135**: 36 (*Parametriocnemus*). Localities: "VENEZUELA: VEN 5" [= Stream at bridge ca 1.6 km W of Santo Domingo along Barinas-Merida highway, alt. 1920 m]. — Distr.: **NT**: Venezuela.

sp.: COFFMAN, YURASITS & DE LA ROSA, 1988: *Spixiana Supplement* **14**: 85 (*Parametriocnemus*). Locality: "South India". — Distr.: **OR**: India (Kerala or

Tamil Nadu).

sp.: WATSON & HEYN, 1993: *Netherlands Journal of Aquatic Ecology* **26**(2/4): 259 (*Parametriocnemus*). Localities: "Costa Rica . . . A, C, G, S 275 - 1990 m" [= Costa Rica . . . Alajueta, Cartago, Guanacaste & San Jose Provinces 275 - 1990 metres]. — Distr.: **NT**: Costa Rica.

sp.: OSPINA-TORRES, RISS & RUIZ, 1999: *Insectos de Colombia* II: 376, 380 (*Parametriocnemus*). Locality: {Colombia} "Sabana de Bogotá". — Distr.: **NT**: Colombia.

sp.: TRIVINHO-STRIXINO, 2011: *Larvas de Chironomidae Guia de Identificação*: 283 (*Parametriocnemus*). Locality: "Brazil". — Distr.: **NT**: Brazil.

Nomina dubia probably in PARAMETRIOCNEMUS

algerinus (MARCUZZI, 1950): *Annalen des Naturhistorischen Museums in Wien* **57**: 275 (*Metriocnemus*). Type-locality: "Hassi Babah, Algeria centrale" [= Hassi Bahbah, central Algeria].

Genus **PARAPHAENOCLADIUS** THIENEMANN

PARAPHAENOCLADIUS THIENEMANN in SPÄRCK & THIENEMANN, 1924: *Verhandlungen der Internationalen Vereinigung für Theoretiische und Angewandte Limnologie* **2**: 223. Type-species: *Metriocnemus ampullaceus* Kieffer, 1923 [= *Chironomus impensus* Walker, 1856], by original designation.

TOSACLADIUS SASA, SUZUKI & SAKAI, 1999: *Tropical Medicine* **40**(3): 112 (as subgenus of *Metriocnemus* Wulp, 1874). Type-species: *Metriocnemus* (*Tosacladius*) *seiryulemeus* Sasa, Suzuki & Sakai, 1999, by original designation. Synonymized with *Paraphaenocladius* Thienemann, 1924, by Yamamoto (2004: *Makunagi* **21**: 70).

brevinervis (HOLMGREN, 1869): *Kungliga Svenska VetenskapsAkademiens Handlingar* **8**(5): 39 (*Chironomus*). Type-locality: [Norway] "Hab. in Spetsbergia ad Green Harbour" [= Dwells in Spitzbergen at Green Harbour] [Lectotype designated in Sæther, 1989: *Entomologica Scandinavica* **19**(4): 394, "Green Harbour,

Spitsbergen, Norway"]. — Distr.: **NE**: Canada (Nunavut), Greenland; **PA**: Novaya Zemlya, Spitzbergen.

despectus (KIEFFER, 1926): *Norsk Entomologisk Tidsskrift* **2**: 87 (*Metriocnemus*). Type-localities: [Canada, Nunavut, Ellesmere Island] "Havnen" [= Gåsefjord]; "Vinter Havnen" [= Gåsefjord] [Lectotype designated in Sæther, Sublette & Willassen, 1984: *Entomologica Scandinavica* **15**(2): 264, "Canada: Northwest Territories, Ellesmere Island, "Vinter Havnen" (= Gåsefjord)"]. [Ellesmere Island now in Nunavut Province].

crassicaudatus SÆTHER & WANG, 1995: *Entomologica Scandinavica Supplement* **48**: 35 (*Paraphaenocladius*). Type-locality: "TANZANIA: Tanga, West Usumbara Mts.". — Distr.: **AF**: Tanzania.

cuneipennis (FREEMAN, 1961): *Mémoires de l'Institut Scientifique de Madagascar* (Série E) **12**: 239 (*Metriocnemus*). Type-locality: "Madagascar Centre : Moramanga, 1.000 m". — Distr.: **AF**: Madagascar.

dewulfi (GOETGHEBUER, 1936): *Revue de Zoologie et de Botanique Africaines* **28**: 491 (*Metriocnemus*; as "*Dewulfi*"). Type-locality: [Democratic Republic of the Congo] "Rutshuru". — Distr.: **PA**: Saudi Arabia; **AF**: D.R.Congo, South Africa, Tanzania, Zimbabwe.

exagitans (JOHANNSEN, 1905): *Bulletin of the New York State Museum* **86**: 303 (*Metriocnemus*). Type-locality: [U.S.A.] "Ithaca N. Y." [N. Y. = New York]. — Distr.: **NT**: **?**Bolivia, Brazil, Costa Rica, **?**Guatemala, St. Vincent, Trinidad; **NE**: Canada (Northwest Territories, Ontario), U.S.A. (Arizona, California, Colorado, Florida, Georgia, Illinois, Kansas, Minnesota, New Hampshire, New Mexico, New York, North Carolina, Ohio, South Carolina, South Dakota, Tennessee, Wisconsin); **PA**: Austria, China (Ningxia, Tibet), Finland, Germany, **?**Great Britain, Ireland, Japan, Luxembourg, Norway, Russia (Far East), Spain, Switzerland; **OR**: China (Fujian), Japan (Ryukyu Archipelago).

exagitans subsp. **exagitans** (JOHANNSEN, 1905): *Bulletin of the New York State Museum* **86**: 303 (*Metriocnemus*). Type-locality: [U.S.A.] "Ithaca N. Y." [N. Y. = New

York]. — Distr.: **NE**: Canada (Northwest Territories, Ontario), U.S.A. (Arizona, California, Colorado, Florida, Georgia, Kansas, Illinois, New York, New Hampshire, New Mexico, North Carolina, Ohio, South Carolina, South Dakota, Tennessee, Wisconsin); **PA**: China (Ningxia, Tibet), Russia (Far East); **OR**: China (Fujian), Japan (Ryukyu Archipelago).

brachyneura (MALLOCH, 1915): *Bulletin of the Illinois State Laboratory of Natural History* **10**: 498 (*Metriocnemus*). Type-locality: [U.S.A.] "Muncie, Ill., . . . on bank of Stony Creek" [Ill. = Illinois].

ryutanus (SASA & HASEGAWA, 1988): *Japanese Journal of Sanitary Zoology* **39**(3): 241 (*Metriocnemus*). Type-locality: {Ryukyu Islands, southern Japan} "on the shore of Lake Ryutan, Shuri, Okinawa Island".

exagitans subsp. **longipes** SÆTHER & WANG, 1995: *Entomologica Scandinavica Supplement* **48**: 52 (*Paraphaenocladius*; as subspecies of *exagitans* Johannsen, 1905). Type-locality: "COSTA RICA: Guanacaste prov., Cacao". — Distr.: **NT**: **?**Bolivia, Brazil, Costa Rica, **?**Guatemala, St. Vincent, Trinidad.

exagitans subsp. **monticola** STRENZKE, 1950: *Archiv für Hydrobiologie Supplement* **18**(2): 211 (*Paraphaenocladius*; as subspecies of *impensus* Walker, 1856). Type-localities: [Austria] [p. 214] "Lunzer Untersee, Niederösterreich" [= 'Lower Lake' at Lunz, Lower Austria]; [p. 215] "Steiermark". — Distr.: **PA**: Austria, Finland, Germany, **?**Great Britain, Ireland, Japan, Luxembourg, Norway, Spain, Switzerland.

oiraseptimus (SASA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 75 (*Parametriocnemus*). Type-locality: {Japan} "at Nenokuchi".

ikineous (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(3): 163 (*Metriocnemus*). Type-locality: [Title, p. 143] "Western Japan. . . . Iki Island"; [p. 163] "Satofure". — Distr.: **PA**: Japan.

impensus (WALKER, 1856): *Insecta Britannica Diptera* **3**: 184 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England]. — Distr.: **NE**: Canada (Manitoba),

Greenland, U.S.A. (Minnesota); **PA**: Algeria, Austria, Belgium, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Great Britain, Iceland, Ireland, Italy, Japan, Kaliningrad, Lebanon; Luxembourg, Madeira, Netherlands, Norway, Poland, Romania, Russia (CET, NET, Far East), Saudi Arabia, South Korea, Spain, Sweden, Turkey; **OR**: China (Guangdong, Yunnan), India (West Bengal), Japan (Ryukyu Archipelago).

impensus subsp. **contractus** SÆTHER & WANG, 1995: *Entomologica Scandinavica Supplement* **48**: 58 (*Paraphaenocladius*; as subspecies of *impensus* Walker, 1856). Type-locality: "CHINA: Guangdong, Fengkai". — Distr.: **PA**: Algeria, Austria, Germany, Japan, **?**Romania, Turkey; **OR**: China (Guangdong, Yunnan).

impensus subsp. **croceus** CHAUDHURI & BHATTACHARYAY in CHAUDHURI, BHATTACHARYAY & DHUTTA, 1989: *Oriental Insects* **23**: 316 (*Paraphaenocladius*; as species). Type-locality: "INDIA: West Bengal: Darjeeling". — Distr.: **PA**: Saudi Arabia; **OR**: India (Manipur, Meghalaya, Sikkim, West Bengal), Japan (Ryukyu Archipelago). [**Note**]

distinctus CHAUDHURI & BHATTACHARYAY in CHAUDHURI, BHATTACHARYAY & DHUTTA, 1989: *Oriental Insects* **23**: 317 (*Paraphaenocladius*). Type-locality: "INDIA: West Bengal: Darjeeling". [**Note**]

albusalatus CHAUDHURI & SINHARAY, 1989: *Bulletin of Entomology* **28**(2): 95 (*Paraphaenocladius*). Type-locality: "India, West Bengal, Ghum". [**Note**]

trichialis CHAUDHURI & SINHARAY, 1989: *Bulletin of Entomology* **28**(2): 99 (*Paraphaenocladius*). Type-locality: "India, West Bengal, Kurseong". [**Note**]

amamirobustus SASA, 1990: *Japanese Journal of Experimental Medicine* **60**(3): 131 (*Paraphaenocladius*). Type-locality: {Amami Island, Nansei Islands, southern Japan} "at the side of Yakkachi River".

impensus subsp. **impensus** (WALKER, 1856): *Insecta Britannica Diptera* **3**: 184 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England]. — Distr.: **NE**: Canada (Manitoba), Greenland, U.S.A. (Minnesota); **PA**: Austria, Belgium,

Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Great Britain, Iceland, Ireland, Italy, Japan, Kaliningrad, Lebanon; Luxembourg, Madeira, Netherlands, Norway, Poland, Romania, Russia (CET, NET, Far East), South Korea, Spain, Sweden.

debilipennis (LUNDBECK, 1898): *Videnskabelige Meddelelser fra Dansk Naturhistorisk Forening i Kjøbenhavn* **5**: 286 (*Chironomus*). Type-localities: {Grønland} "Ipiutat i Tunugdliarfikfjord" [=Ipiutat in Tunugdliarfikfjord]; "Neriafjord" [Grønland = Greenland] [Lectotype designated in Oliver, 1970: *Entomologica Scandinavica* **1**(2): 106, "Ipiutat, Greenland"].

angulatus (GOETGHEBUER, 1921): *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 75 (*Metriocnemus*). Type-localities: {Belgique} [p. 21] "sur les bords de la Lys" [= on the banks of the Lys]; [p. 188] "Les Flandres", [Belgique = Belgium].

ampullaceus (KIEFFER, 1923): *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 163 (*Metriocnemus*). Type-locality: [Germany] "Westphalie : Sauerland . . . larve dans une source" [= Westphalia : Sauerland . . . larva in a spring] ‖ ► Type-locality: [Germany, Westphalia] "Quelle nördlich von Gut Köbbinghof (bei Völlinghausen, Meßtischblatt Hirschberg)" [= Spring north of Köbbinghof estate (at Völlinghausen, ordnance survey sheet Hirschberg)] in Thienemann, 1919: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst (Zoologische Sektion)* **47**: 31 ◄ ‖.

ampullaceus (THIENEMANN, 1919): *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst (Zoologische Sektion)* **47**: 31 (*Metriocnemus*). Locality: [Germany, Westphalia] "Quelle nördlich von Gut Köbbinghof (bei Völlinghausen, Meßtischblatt Hirschberg)" [= Spring north of Gut Köbbinghof estate (at Völlinghausen, ordnance survey sheet Hirschberg)]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

austriacus KIEFFER in ALBRECHT, 1924: *Verhandlungen der Internationalen*

Vereinigung für theoretiische und angewandte Limnologie **2**: 196 (*Paraphaenocladius*; as var. of *ampullaceus* Kieffer, 1923). Type-locality: [Austria] [Title, p. 183] "Mittersees bei Lunz (Nieder-Oesterreich)" [= 'Middle Lake' near Lunz (Lower Austria)].

toyamauveus SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 41 (*Gymnometriocnemus*). Type-locality: [Introduction, p. 16] "Japan . . . in the zoological garden called Toyama City Family Park on the foot of Kureha Hill"; [p. 17] "at the side of the ground pool "A." " [= Lake A, p. 16].

innasus SÆTHER & WANG, 1995: *Entomologica Scandinavica Supplement* **48**: 44 (*Paraphaenocladius*). Type-locality: "USA: South Dakota, Yankton, Gavins Point Nat. Fish Hatchery". — Distr.: **NE**: U.S.A. (California, Kansas, New Mexico, Ohio, South Carolina, South Dakota).

intercedens BRUNDIN, 1947: *Arkiv för Zoologi* **39A**: 13 (*Paraphaenocladius*). Type-locality: {Sweden} "Sm. Toftasjön" [= Småland, Toftasjön]. — Distr.: **PA**: Finland, France, Norway, Sweden.

irritus (WALKER, 1856): *Insecta Britannica Diptera* **3**: 178 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England]. — Distr.: **NE**: U.S.A. (South Carolina, Tennessee); **PA**: Austria, Denmark, Finland, France, Germany, Great Britain, Iceland, Ireland, Lebanon, Netherlands, Norway, Portugal, Romania, Russia (NET), Spain, Sweden, Switzerland.

irritus subsp. **irritus** (WALKER, 1856): *Insecta Britannica Diptera* **3**: 178 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England]. — Distr.: **PA**: Austria, Denmark, Finland, France, Germany, Great Britain, Iceland, Ireland, Lebanon, Netherlands, Norway, Portugal, Romania, Russia (NET), Spain, Sweden, Switzerland.

irritus subsp. **longiocostatus** SÆTHER & WANG, 1995: *Entomologica Scandinavica Supplement* **48**: 20 (*Paraphaenocladius*; as subspecies of *irritus* Walker, 1856). Type-locality: "USA: South Carolina, Aiken Co., Savannah River Plant". —

Distr.: **NE**: U.S.A. (South Carolina, Tennessee).

kunashiricus MAKARCHENKO & MAKARCHENKO, 2006: *Russian Entomological Journal* **15**(1): 86 (*Paraphaenocladius*). Type-locality: {Russia, Far East} **Kuril'skie ostrova, o-v Kunashir, r-n vulkana Tyatya, bezymyannoe ozero u r. Tyatinka** [= Kuril Islands, Kunashir Island, vicinity of Tyatya Volcano, unnamed lake by the River Tyatinka]. — Distr.: **PA**: Russia (Far East).

kuromeneus SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 28 (*Paraphaenocladius*). Type-locality: [Japan] "at the side of Kuroyon Dam". — Distr.: **PA**: Japan.

nasthecus SÆTHER, 1969: *Bulletin of the Fisheries Research Board of Canada* **170**: 123 (*Paraphaenocladius*). Type-locality: [Canada] "ditch beside road, Sandylands Forest Reserve, Man." [Man. = Manitoba]. — Distr.: **NE**: Canada (Manitoba, Northwest Territories, Nunavut, Ontario), U.S.A. (Kansas, New Mexico, South Dakota); **PA**: China (Inner Mongolia, Qinghai, Shandong), Russia (East Siberia).

ogasadecimus (SASA & SUZUKI, 1997): *Medical Entomology and Zoology* **48**(4): 331 (*Metriocnemus*). Type-locality: {Japan, Ogasawara Islands} "Hahajima". — Distr.: **OC**: Bonin Islands.

penerasus (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 315 (*Metriocnemus*). Type-localities: [Great Britain] "Arran"; "Newtown, N. Wales"; "Rostherne, Cheshire" [Lectotype designated in Sæther & Wang, 1995: *Entomologica Scandinavica Supplement* **48**: 42, "WALES: Northern Wales, Newtown"]. — Distr.: **PA**: Austria, Belgium, France, Germany, Great Britain, Ireland, Japan, Netherlands, Romania, Russia (Far East), Spain, **?**Switzerland. [**Note**]

proprius CHAUDHURI & SINHARAY, 1989: *Bulletin of Entomology* **28**(2): 97 (*Paraphaenocladius*). Type-locality: "India, West Bengal, Rung Tang". — Distr.: **OR**: India (West Bengal). [**Note**]

pseudirritus STRENZKE, 1950: *Archiv für Hydrobiologie Supplement* **18**(2): 216

(*Paraphaenocladius*). Type-locality: [Austria] Niederösterreich" [= Lower Austria]. — Distr.: **NE**: Canada (Ontario); U.S.A. (Michigan, Ohio, South Carolina, Tennessee); **PA**: Algeria, Austria, Faroe Islands, Finland, France, Great Britain, Ireland, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Spain, Sweden; Turkey.

pseudirritus subsp. **maurus** SÆTHER & WANG, 1995: *Entomologica Scandinavica Supplement* **48**: 28 (*Paraphaenocladius*; as subspecies of *pseudirritus* Strenzke, 1950). Type-locality: "ALGERIA". — Distr.: **PA**: Algeria.

pseudirritus subsp. **nearcticus** SÆTHER & WANG, 1995: *Entomologica Scandinavica Supplement* **48**: 26 (*Paraphaenocladius*; as subspecies of *pseudirritus* Strenzke, 1950). Type-locality: "USA: Tennessee, Sevier Co., small stream on Rt. 441 12 mi southeast of Gatlinburg". — Distr.: **NE**: Canada (Ontario); U.S.A. (Michigan, Ohio, South Carolina, Tennessee).

pseudirritus subsp. **pseudirritus** STRENZKE, 1950: *Archiv für Hydrobiologie Supplement* **18**(2): 216 (*Paraphaenocladius*). Type-locality: [Austria] Niederösterreich" [= Lower Austria]. — Distr.: **PA**: Austria, Faroe Islands, Finland, France, Great Britain, Ireland, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Spain, Sweden; Turkey.

pusillus SÆTHER & WANG, 1995: *Entomologica Scandinavica Supplement* **48**: 39 (*Paraphaenocladius*). Type-locality: "USA: South Carolina, Oconee Co., seep on shore of Jocasse Reservoir". — Distr.: **NE**: U.S.A. (South Carolina); **PA**: Japan.

seiryulemeus (SASA, SUZUKI & SAKAI, 1999): *Tropical Medicine* **40**(3): 112 (*Metriocnemus* (*Tosacladius*)). Type-locality: [Abstract, p. 99] "Shimanto River, western Shikoku Island, Japan"; [p. 112] "Yachou Koen, Nakamura". — Distr.: **PA**: Japan.

siratoritertius (SASA & SUZUKI, 1998): *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 77 (*Metriocnemus*). Type-locality: [Japan] [p. 75] "at Shiratori, Nagasaki". — Distr.: **PA**: Japan.

tonsuratus SÆTHER & WANG, 1995: *Entomologica Scandinavica Supplement* **48**: 37 (*Paraphaenocladius*). Type-locality: "CANADA: Ontario, James Bay, North Point". — Distr.: **NE**: Canada (Northwest Territories, Ontario).

toyamaxeyus SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 44 (*Paraphaenocladius*). Type-locality: [Introduction, p. 16] "Japan . . . in the zoological garden called Toyama City Family Park on the foot of Kureha Hill"; [p. 17] "at the side of the ground pool "A." " [= Lake A, p. 16]. — Distr.: **PA**: Japan.

triangulus SÆTHER & WANG, 1995: *Entomologica Scandinavica Supplement* **48**: 37 (*Paraphaenocladius*). Type-locality: "CHINA: Qinghai, Menyuan". — Distr.: **PA**: China (Qinghai).

yakyheius (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(2): 87 (*Metriocnemus*). Type-locality: {Yakushima Island, Southwestern Japan} "Shiratani River" [error = Shirotani]. — Distr.: **PA**: Japan.

sp.: ROBACK & COFFMAN, 1983: *Proceedings of the Academy of Natural Sciences of Philadelphia* **135**: 38 (*Paraphaenocladius*). Localities: "BOLIVIA: BP 4" [= Tributary of Río Palca, ca 55 km E of La Paz on road to Palca . . . alt. 4200 m]; "PERU: BP 22b" [= Small springs just below Hotel Tourista at Machupicchu . . . alt. 2200 m]. — Distr.: **NT**: Bolivia, Peru. [**Note**]

Nomina dubia in PARAPHAENOCLADIUS

alpinus (GOETGHEBUER, 1933): *Bulletin et Annales de la Société Entomologique de Belgique* **73**(8/9): 219 (*Metriocnemus* (*Paraphaenocladius*)). Type-locality: "dans les A1pes autrichiennes" [= in the Austrian Alps].

camptoneurus (KIEFFER, 1911): *Bulletin de la Société Entomologique de France* **1911**: 200 (*Metriocnemus*). Type-localities: Not given ‖ ► Type-localities: [Germany] "an der Glör unterhalb der Talsperre" [= on the Glör below the dam]; "in Gotha (Thüringen)" [= in Gotha (Thüringia)] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 78 ◄ ‖.

cuneatus (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 315 (*Metriocnemus*). Type-locality: [Great Britain] "Epping Forest (Wake Valley Pond)". [**Note**]

discretus (JOHANNSEN, 1932): *Archiv für Hydrobiologie Supplement* **9**: 717 (*Metriocnemus*). Type-locality: [Indonesia] "Tjibodas, West Java". [**Note**]

muntensis (GOETGHEBUER, 1937): *Bulletin et Annales de la Société Entomologique de Belgique* **77**(6): 279 (*Metriocnemus* (*Paraphaenocladius*)). Type-locality: "dans le bois de Munte, . . . (Belgique)" [= in the forest of Munte, . . . (Belgium)].

murodoensis (SASA, 1993): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1993**: 65 (*Gymnometriocnemus*). Type-locality: [Japan] [Abstract, p. 63] "at Murodo-Otani, on a highland swamp of Mount Tate on an altitude of about 2,400 meters from sea level". [**Note**]

nemophilus (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 97 (*Metriocnemus*). Type-locality: "Allemagne du Nord, source d'une forêt" [= northern Germany, spring in a forest].

ocularis (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 98 (*Metriocnemus*). Type-locality: "Nord de l'Allemagne" [= northern Germany].

subclavatus (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 99 (*Metriocnemus*). Type-locality: [Poland] "Nord de l'Allemagne, lac Madusee" [= northern Germany (now Poland), Lake Madu (now Lake Miedwie)].

Unavailable names in PARAPHAENOCLADIUS

togarobustus SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120 (*Paraphaenocladius*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

Genus **PARAPSECTROCLADIUS** CRANSTON

PARAPSECTROCLADIUS CRANSTON, 2000: *Insect Systematics and Evolution* **31**(1): 105. Type-species: *Cardiocladius acuminatus* Edwards, 1931, by original designation.

acuminatus (EDWARDS, 1931): *Diptera of Patagonia and South Chile* **2**(5): 274 (*Cardiocladius*). Type-locality: [Chile] "Peulla". — Distr.: **NT**: Chile.

escondido CRANSTON & AÑÓN SUÁREZ in CRANSTON, 2001: *Insect Systematics and Evolution* **31**(4): 440 (*Parapsectrocladius*). Type-locality: "Argentina: Bariloche, Lago Escondido". — Distr.: **NT**: Argentina.

escondido CRANSTON & AÑÓN SUÁREZ in CRANSTON, 2000: *Insect Systematics and Evolution* **31**(1): 115 (*Parapsectrocladius*). Type-locality: "Argentina: Bariloche, Lago Escondido". Name not made available - not accompanied by a statement of intent to deposit the holotype in a collection or identifying the name and address of the collection contrary to Article 16.4.2 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

longistylus CRANSTON, 2000: *Insect Systematics and Evolution* **31**(1): 115 (*Parapsectrocladius*). Type-locality: "Chile: Ultima Esperanza, P.N. Torres del Paine, littoral lagoon between Lagos Nordesnkjold and L. Sarmiento" [error, Nordesnkjold = Nordenskjold]. — Distr.: **NT**: Argentina, Chile.

reissi CRANSTON, 2000: *Insect Systematics and Evolution* **31**(1): 114 (*Parapsectrocladius*). Type-locality: "Chile: Valdivia, teich im Park Saval bei Universiteit" [= Chile: Valdivia, pond in Saval Park near the University]. — Distr.: **NT**: Chile.

Genus **PARASMITTIA** STRENZKE

PARASMITTIA STRENZKE, 1950: *Archiv für Hydrobiologie Supplement* **18**(2): 270. Type-species: *Parasmittia carinata* Strenzke, 1950, by original designation.

carinata STRENZKE, 1950: *Archiv für Hydrobiologie Supplement* **18**(2): 270 (*Parasmittia*). Type-localities: [Germany] "Holstein"; [Austria] "Niederösterreich" [= Lower Austria]; [Austria] "Steiermark"; [Poland] "Schlesien" [= Silesia]. — Distr.: **NE**: Canada (Nova Scotia); **PA**: Austria, Czech Republic, Denmark, Finland,

France, Germany, Italy, Netherlands, Poland, Russia (CET, East Siberia), Sweden, Switzerland.

kamiacuta (SASA & HIRABAYASHI, 1993): *Japanese Journal of Sanitary Zoology* **44**(4): 377 (*Smittia*). Type-locality: {Nagano, Japan} [p. 362] "Kamikochi"; [p. 377] "at the side of Azusa River at Kappa Bridge". — Distr.: **PA**: Japan.

Genus **PARATRICHOCLADIUS** SANTOS-ABREU

PARATRICHOCLADIUS SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 204 (as subgenus of *Orthocladius* Wulp, 1874). Type-species: *Orthocladius tenuipes* Becker, 1908 [= *Chironomus rufiventris* Meigen, 1830], by subsequent designation of Hirvenoja (1973: *Annales Zoologici Fennici* **10**: 88).

SYNCRICOTOPUS BRUNDIN, 1956: *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 106. Type-species: *Chironomus rufiventris* Meigen, 1830, by original designation. Synonymized with *Paratrichocladius* Santos-Abreu, 1918, by Hirvenoja (1973: *Annales Zoologici Fennici* **10**: 62).

aberrans CASPERS & REISS, 1989: *Entomofauna* **10**(8): 121 (*Paratrichocladius*). Type-locality: "Bahnstation Soganli W Sarikamis, 2100 m über NN (Provinz Kars, Osttürkei)" [= Railway station at Soganli west of Sarikamis, 2100 metres above sea-level (Kars Province, eastern Turkey)]. — Distr.: **PA**: Turkey.

ater WANG & ZHENG, 1990: *Acta Entomologica Sinica* **33**(2): 243 (*Paratrichocladius*). Type-locality: [p. 246, English Summary] {China} "Jilin Province (Chang-bai Mountain)". — Distr.: **PA**: China (Jilin).

brevicornis HIRVENOJA, 1986: *Spixiana Supplement* **11**: 164 (*Paratrichocladius*). Type-locality: "Lake Gangabhal, 3580 m, Kashmir, India". — Distr.: **OR**: India (Jammu and Kashmir).

gayi SERRA-TOSIO, 1984: *Bulletin de la Société Entomologique de France* **88**: XIV (*Paratrichocladius*). Type-locality: "France, Vaujany (38), rivière l'Eau d'Olle, altitude 1 580 m" [= France, Vaujany (38), l'Eau d'Olle River, altitude 1,580

metres]. — Distr.: **PA**: France, Germany, Italy. [**Note**]

gotoefeus SASA & SUZUKI, 2001: *Tropical Medicine* **42**(3/4): 154 (*Paratrichocladius*). Type-locality: {Goto Islands, Western Japan} "Wani River". — Distr.: **PA**: Japan.

guidalii ROSSARO, 1990: *Bollettino della Societa Entomologica Italiana* **122**: 61 (*Paratrichocladius*). Type-locality: {Italy} "Noce river near Stavel (TN)" [TN = Trentino]. — Distr.: **PA**: Italy.

hamatus WANG & ZHENG, 1990: *Acta Entomologica Sinica* **33**(2): 243 (*Paratrichocladius*). Type-locality: [p. 246, English Summary] {China} "Sichuan Province (Emei Mountain)". — Distr.: **OR**: China (Sichuan).

lanzavecchiai ROSSARO, 1990: *Bollettino della Societa Entomologica Italiana* **122**: 60 (*Paratrichocladius*). Type-locality: "Vera Spring near Tempera (L'Aquila, Italy)". — Distr.: **PA**: Corsica, France, Italy.

micans (KIEFFER, 1918): *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 81 (*Dactylocladius*). Type-localities: [South Africa] "Natal: New-Hannover"; "Transvaal: Pretoria". — Distr.: **PA**: Corsica, Crete, Cyprus, Greece, Italy, Lebanon, Morocco, Spain, Turkey; **AF**: Benin, D.R.Congo, Ethiopia, Kenya, Madagascar, Réunion, South Africa, Uganda, Yemen, Zambia, Zimbabwe.

dewulfi (GOETGHEBUER, 1934): *Revue de Zoologie et de Botanique Africaines* **25**: 201 (*Cricotopus*; as "*Dewulfi*"). Type-locality: [Democratic Republic of the Congo] {Congo Belge} "pris à Kisantu" [= caught at Kisantu].

mongolseteus SASA & SUZUKI, 1997: *Japanese Journal of Tropical Medicine and Hygiene* **25**(4): 174 (*Paratrichocladius*). Type-locality: {Mongolia} "Bogd . . . about 1,500 m high from sea level". — Distr.: **PA**: Mongolia.

nitidus (MALLOCH, 1915): *Bulletin of the Illinois State Laboratory of Natural History* **10**: 515 (*Orthocladius* (*Trichocladius*)). Type-locality: [U.S.A.] "Monticello, Ill." [Ill. = Illinois]. — Distr.: **NE**: Canada (Manitoba), U.S.A. (Illinois, Iowa, New York, Utah).

helis (ROBACK, 1957): *Proceedings of the Academy of Natural Sciences of*

Philadelphia **109**: 15 (*Trichocladius*). Type-locality: [U.S.A.] "Lemon's Grove, 3 miles south of Kamas, Summit County, Utah".

fontinalis (SÆTHER, 1969): *Bulletin of the Fisheries Research Board of Canada* **170**: 77 (*Syncricotopus*). Type-locality: [Canada] "cold spring, The Bog at The Pas, Man." [Man. = Manitoba].

nivalis (GOETGHEBUER, 1938): *Bulletin et Annales de la Société Entomologique de Belgique* **78**(1/2): 61 (*Trichocladius*). Type-locality: [Switzerland] "dans le Parc national Suisse" [= in the Swiss National Park] [Lectotype designation in Hirvenoja, 1973: *Annales Zoologici Fennici* **10**: 9), "Park national Suisse"] [Suisse = Switzerland]. — Distr.: **PA**: Austria, **?**Denmark, France, Germany, **?**Great Britain, **?**Ireland, Italy, Norway, **?**Poland, **?**Romania, Slovakia, **?**Spain, **?**Sweden, Switzerland, **?**Ukraine. [**Note**]

orientalis MAKARCHENKO & MAKARCHENKO, 2009: *Evraziatskii Entomologicheskii Zhurnal* **8**(3): 330 (*Paratrichocladius*). Type-locality: {Russia, Far East} **Primorskii krai, Terneiskii r-n, r. Samarga** [= Primorsky Krai, Terneisky District, River Samarga]. — Distr.: **PA**: Russia (Far East).

osellai ROSSARO, 1990: *Bollettino della Societa Entomologica Italiana* **122**: 63 (*Paratrichocladius*). Type-locality: {Italy} "Oglio river loc. Vezza (BS)" [BS = Brescia]. — Distr.: **PA**: France, Germany, Italy, Norway, Spain.

pierfrancescoi ROSSARO, 1990: *Bollettino della Societa Entomologica Italiana* **122**: 60 (*Paratrichocladius*). Type-locality: {Italy} "f. Aterno" [= River Aterno]. — Distr.: **PA**: Italy.

pierretti LEHMANN, 1979: *Spixiana Supplement* **3**: 33 (*Paratrichocladius*). Type-locality: [Democratic Republic of the Congo] "Kalengo, Kivu-See-Gebiet, Zaire" [= Kalengo, Lake Kivu region, Zaire]. — Distr.: **AF**: D.R.Congo.

pluriserialis (FREEMAN, 1959): *Bulletin of the British Museum (Natural History)* Entomology **7**(9): 414 (*Trichocladius*). Type-locality: {New Zealand} "Canterbury: Christchurch, R. Purau". — Distr.: **AU**: Australia (Australian Capital Territory, New South Wales, Victoria), New Zealand (North Island,

South Island).

pretorianus (FREEMAN, 1956): *Bulletin of the British Museum (Natural History)* Entomology **4**(7): 316 (*Trichocladius*). Type-locality: [South Africa] "TRANSVAAL : Pretoria". — Distr.: **AF**: Ethiopia, South Africa.

rufiventris (MEIGEN, 1830): *Systematische Beschreibung* **6**: 249 (*Chironomus*). Type-locality: [Title] "europäischen" [= European] [Lectotype designation in Hirvenoja, 1973: *Annales Zoologici Fennici* **10**: 89]. — Distr.: **NE**: Canada (Ontario), U.S.A. (California, North Carolina, Ohio, South Carolina); **PA**: Austria, Balearic Islands, Belgium, Canary Islands, China (Jilin, Tibet), Corsica, Croatia, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Japan, Lebanon, Luxembourg, Macedonia, Madeira, Moldova, Mongolia, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia (CET, NET, Far East), Sicily, Slovakia, Spain, Sweden, Switzerland, Syria, Tunisia, Turkey, Ukraine, ¶Yugoslavia; **OR**: China (Fujian).

opplens (WALKER, 1856): *Insecta Britannica Diptera* **3**: 187 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England].

tenuipes (BECKER, 1908): *Mitteilungen aus dem Zoologischen Museum in Berlin* **4**: 75 (*Orthocladius*). Type-locality: {Kanarischen Inseln} "Teneriffe" [= Tenerife], [Kanarischen Inseln = Canary Islands] [Lectotype designation in Cranston & Armitage, 1988: *Deutsche Entomologische Zeitschrift* (Neue Folge) **35**(4/5): 347, "Canary Islands: Tenerife, La Laguna"].

proximus (KIEFFER, 1911): *Bulletin de la Société Entomologique de France* **1911**: 186 (*Trichocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖►Type-locality: [Germany] {Thüringen} "Gotha" in Thienemann, 1919: *Deutsche Entomologische Zeitschrift* **1919**(1/2): 135◄‖.

nudipes (GOETGHEBUER, 1921): *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 100 (*Trichocladius*). Type-localities: {Belgique} [p. 27] "Pris à Destelbergen et à Gand" [= Caught at Destelbergen and at Gand]; [p. 190] "Les Flandres", [Belgique = Belgium]. [**Note**]

dentifer (GOETGHEBUER, 1935): *Encyclopédie Entomologique, B-II, Diptera* **8**: 7 (*Trichocladius*). Type-locality: [Switzerland] "au Röserenbach" [= in the Röserenbach] [Lectotype designation in Hirvenoja, 1973: *Annales Zoologici Fennici* **10**: 89, "Röserenbach, Schweiz"] [Schweiz = Switzerland].

nadigi (GOETGHEBUER, 1938): *Bulletin et Annales de la Société Entomologique de Belgique* **78**(1/2): 62 (*Trichocladius*; as "*Nadigi*"). Type-locality: [Switzerland] "au Parc national Suisse" [= in the Swiss National Park] [Lectotype designation in Hirvenoja, 1973: *Annales Zoologici Fennici* **10**: 89, "Nationalpark, Schweiz"] [Schweiz = Switzerland].

rufipes (GOETGHEBUER, 1944): *Biologisch Jaarboek* **11**: 39 (*Trichocladius*). Type-locality: [Austria] "Lunz, Danube inférieur" [= Lunz, lower Danube].

arduus (GOETGHEBUER in HUMPHRIES, 1951): *Hydrobiologia* **3**(3): 209 (*Trichocladius*). Type-locality: [Ireland] "in the lower reaches of the River Dodder, about two miles from where the River Liffey enters the sea . . . (London Bridge Road)" [Lectotype designation in Hirvenoja, 1973: *Annales Zoologici Fennici* **10**: 89-90, "(Dodder) Dublin, Irland"] [Irland = Ireland].

tusimocedeus SASA & SUZUKI, 1999: *Tropical Medicine* **41**(2): 80 (*Paratrichocladius*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 80] "Kechi Dam".

? *luteoligaster* SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 205 (*Orthocladius* (*Paratrichocladius*)). Type-locality: {Canary Isles} "Santa Cruz de la Palma . . . Puntallana". **Questionable synonym**.

? *bavaricus* (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 82 (*Phaenocladius*). Type-locality: [Germany] "Bavière : St-Ottilien" [= Bavaria : St Ottilien]. **Questionable synonym**.

? *hyemalis* (GOETGHEBUER, 1950): *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* **26**(47): 9 (*Trichocladius*). Type-locality: "Bords de l'Huveaune (France)" [= Banks of the Huveaune (France)]. **Questionable**

synonym.

skirwithensis (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 329 (*Spaniotoma* (*Trichocladius*)). Type-locality: [Great Britain] "Skirwith, Cumberland" [Lectotype designated in Cranston & Oliver, 1988: *Canadian Entomologist* **120**(5): 444, [Great Britain] "Cumberland, Skirwith"]. — Distr.: **NE**: Canada (New Brunswick, Nova Scotia); **PA**: Austria, **?**Denmark, Finland, France, **?**Germany, Great Britain, **?**Ireland, Italy, **?**Morocco, **?**Norway, **?**Poland, **?**Romania, **?**Russia (**?**NET, **?**Far East), Sicily, Slovakia, **?**Spain, **?**Sweden, **?**Switzerland, **?**Turkey, **?**Ukraine.

? *clavatus* (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 91 (*Trichocladius*). Type-locality: [Germany] "Holstein" ‖ ►Type-locality: [Germany] "Rügen, . . . Quelle a. d. Rognikwiese bei Saßnitz" [= Rügen island, . . . spring at Rognik meadow near Sassnitz] in Thienemann, 1926: *Deutsche Entomologische Zeitschrift* **1926**(1): 8-9◄ ‖. **Questionable synonym**.. **[Note]**

spiesi ASHE & O'CONNOR, 2012: *A World Catalogue of Chironomidae (Diptera). Part 2. Orthocladiinae*: 2 (*Paratrichocladius*; as nom. nov. for *Orthocladius nigritus* Goetghebuer, 1938, nec *Orthocladius* (*Orthocladius*) *nigritus* Malloch, 1915). — Distr.: **PA**: Austria, France, Germany, Great Britain, Ireland, Norway, Slovakia, Switzerland.

nigritus (GOETGHEBUER, 1938): *Bulletin et Annales de la Société Entomologique de Belgique* **78**(11): 459 (*Orthocladius*). Type-locality: [Austria] "Basse-Autriche" [= Lower Austria]. **Preoccupied**. Junior primary homonym of *Orthocladius* (*Orthocladius*) *nigritus* Malloch, 1915 – the latter is a valid species of *Orthocladius* (*Orthocladius*).

tamaater SASA, 1981: *Research Report from the National Institute for Environmental Studies* **29**: 20 (*Paratrichocladius*). Type-locality: {Japan, Tama River, Minamiasakawa River} "Station No. 1". — Distr.: **PA**: Japan.

tobanonadecimus KIKUCHI & SASA, 1990: *Japanese Journal of Sanitary Zoology* **41**(4): 322 (*Paratrichocladius*). Type-locality: {Sumatra, Indonesia} "at the side of

Lake Toba". — Distr.: **OR**: Indonesia (Sumatra).

tridens FU & WANG, 2008: *Sichuan Journal of Zoology* **27**(5): 728 (*Paratrichocladius*). Type-locality: "CHINA: Tibet Autonomus Region: Chayu County: Xiachayu Town: Baantong Village (28°37' N, 97°29' E), altitude 1600 m". — Distr.: **OR**: China (Tibet).

unabrevis SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 58 (*Paratrichocladius*). Type-locality: [Japan] [p. 57] "on the shore of Kurobe River at Unazuki Hotspring town"; [p. 58] "on the shore of Kurobe River". — Distr.: **PA**: Japan.

veronicae ROSSARO, 1992: *Bollettino della Societa Entomologica Italiana* **123**: 235 (*Paratrichocladius*). Type-locality: [Italy] "Vera spring near Tempera (L'Aquila)". — Distr.: **PA**: Austria, France, Italy. [**Note**]

yakukeleus SASA & SUZUKI, 2000: *Tropical Medicine* **42**(2): 68 (*Paratrichocladius*). Type-localities: {Yakushima Island, Southwestern Japan} "Issogawa"; "Senpirotaki". — Distr.: **PA**: Japan.

sp.: (BRUNDIN, 1956): *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 212 (*Syncricotopus*). Localities: [Peru] "Laguna Rinconada, 4680 m ü.M., liegt in der Gegend des Dorfes San Antonio de Potó in der Cordillera Apolobamba NO von Titicaca" [= Rinconada lagoon, 4680 metres above sea-level, lies in the vicinity of the village of San Antonio de Potó in the Cordillera Apolobamba north-east of Titicaca]; "in der Nähe von Potó . . . Laguna Sillacunca, 4830 m" [= near Potó . . . Sillacunca lagoon, 4830 metres]. — Distr.: **NT**: Peru.

sp.: (BRUNDIN, 1956): *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 212 (*Syncricotopus*). Localities: [Argentina and Chile] "südchilenisch-patagonischen Seen" [= southern Chilean - Patagonian Lakes]. — Distr.: **NT**: Argentina, Chile.

sp.: WATSON & HEYN, 1993: *Netherlands Journal of Aquatic Ecology* **26**(2/4): 259 (*Paratrichocladius*). Locality: "Costa Rica . . . P 1150 m" [= Costa Rica . . .

Puntaneras Province 1150 metres]. — Distr.: **NT**: Costa Rica.

sp.: ANDERSEN, CONTRERAS-RAMOS & SPIES, 2000: *Biodiversidad, taxonomía y biogeografía de artrópodos de México: hacia una síntesis de su conocimiento* **2**: 591 (*Paratrichocladius*). Locality: {Mexico} "MEX" [= Mexico State]. — Distr.: **NE**: Mexico (Mexico).

Genus **PARATRISSOCLADIUS** ZAVŘEL

PARATRISSOCLADIUS ZAVŘEL, 1937: *Spisy Vydáváné Přírodovědeckou Fakultou Masarykovy University* **239**: 10 (as subgenus of *Trissocladius* Kieffer, 1908). Type-species: *Trissocladius fluviatilis* Goetghebuer, 1937 [= *Chironomus excerptus* Walker, 1856], by original designation.

PARACHAETOCLADIUS FREEMAN, 1964: *Proceedings of the Royal Entomological Society* (B) **33**(9/10): 150. Type-species: *Chironomus excerptus* Walker, 1856, by original designation. Synonymized with *Paratrissocladius* Zavřel, 1937, by Sæther (1976: *Bulletin of the Fisheries Research Board of Canada* **195**: 253). **Preoccupied**. Junior homonym of *Parachaetocladius* Wülker, 1959.

excerptus (WALKER, 1856): *Insecta Britannica Diptera* **3**: 179 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England]. — Distr.: **PA**: Austria, Belgium, Corsica, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Ireland, Italy, Luxembourg, Morocco, Poland, Portugal, Romania, Russia (CET, NET, East Siberia, Far East), Slovakia, Spain, Sweden, Switzerland, Turkey; **?AF**: ?Senegal; **OR**: China (Anhui, Fujian, Hunan), Myanmar.

excerptus subsp. **excerptus** (WALKER, 1856): *Insecta Britannica Diptera* **3**: 179 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England]. — Distr.: **PA**: Austria, Belgium, Corsica, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Ireland, Italy, Luxembourg, Morocco, Poland, Portugal, Romania, Russia (CET, NET, East Siberia, Far East), Slovakia, Spain, Sweden, Switzerland, Turkey; **?AF**: ?Senegal.

fluviatilis (GOETGHEBUER in ZAVŘEL, 1937): *Spisy Vydáváné Přírodovědeckou Fakultou Masarykovy University* **239**: 9 (*Trissocladius*). Type-locality: [Germany] "Kossau, ein kleines in die Ostsee mündendes Flüßchen" [= Kossau, a small stream flowing into the Baltic Sea]. [**Note**]

excerptus subsp. **pubis** SÆTHER & WANG, 2000: *Tijdschrift voor Entomologie* **143**(2): 291 (*Paratrissocladius*). Type-locality: "MYANMAR: Kambaiti, 2000 m a.s.l.". — Distr.: **OR**: China (Anhui, Fujian, Hunan), Myanmar.

lawrencensis CRANSTON & OLIVER, 1988: *Canadian Entomologist* **120**(5): 445 (*Paratrissocladius*). Type-locality: "CANADA: Ontario, St. Lawrence Islands National Park, Grenadier Island". — Distr.: **NE**: Canada (Ontario).

natalensis (FREEMAN, 1956): *Bulletin of the British Museum (Natural History)* Entomology **4**(7): 328 (*Chaetocladius*, as subspecies of *excerptus* Walker, 1856). Type-locality: [South Africa] "NATAL: Kamberg Game Reserve, Mooi River, 6,000 ft.". — Distr.: **AF**: South Africa.

sp.: COFFMAN, YURASITS & DE LA ROSA, 1988: *Spixiana Supplement* **14**: 85 (*Paratrissocladius*). Locality: "South India". — Distr.: **OR**: India (Kerala or Tamil Nadu).

Genus **PARORTHOCLADIUS** THIENEMANN

PARORTHOCLADIUS THIENEMANN, 1935: *Stettiner Entomologische Zeitung* **96**(2): 213. Type-species: *Dactylocladius nudipennis* Kieffer, 1908, by original designation.

concretus LIU & WANG, 2005: *Zootaxa* **802**: 2 (*Parorthocladius*). Type-locality: "P. R. CHINA: Ningxia Autonomous Region, Liupan Mountain, Erlong River (35° 24 N, 106° 14 E), alt. 1700 m". — Distr.: **PA**: China (Ningxia).

cristatus LIU & WANG, 2005: *Zootaxa* **802**: 4 (*Parorthocladius*). Type-locality: "P. R. CHINA: Sichuan Province, Daocheng County (29° 1 N, 100° 18 E), alt. 40–64 m". — Distr.: **OR**: China (Sichuan).

furudoquartus (SASA & ARAKAWA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 95 (*Hydrobaenus*). Type-

locality: [Japan] [Introduction, p. 88] "Furudo . . . a man-made lake constructed in a hilly area of Ikeda, southern part of Toyama-shi". — Distr.: **PA**: Japan.

korneyevi BARANOV, 2011: *Vestnik Zoologi* **45**(5): 406 (*Parorthocladius*). Type-locality: "Ukraine: Crimean Peninsula, Simferopol, Salgir River, 44°96' N 34°09' E, stream shore". — Distr.: **PA**: Ukraine.

negoroi YAMAMOTO, 2011: *Bulletin of the Toyama Science Museum* **34**: 33 (*Parorthocladius*). Type-locality: "Rendaiji, Nanto-shi, Toyama Pref., Honshu, Japan". — Distr.: **PA**: Japan.

nudipennis (KIEFFER in KIEFFER & THIENEMANN, 1908): *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 35 (*Dactylocladius*). Type-locality: [Germany] "Thüringen" [= Thüringia]. — Distr.: **PA**: Andorra, Austria, Belgium, Bulgaria, Corsica, Czech Republic, Faroe Islands, France, Germany, Great Britain, Italy, Morocco, Novaya Zemlya, Poland, Romania, Russia (East Siberia, Far East), Slovakia, Spain, Sweden, Switzerland.

torrentium (GOETGHEBUER, 1933): *Bulletin et Annales de la Société Entomologique de Belgique* **73**(8/9): 216 (*Orthocladius* (*Dactylocladius*)). Type-locality: [France] "torrent de Severaisse, près de Saint-Foimin (Hautes-Alpes)" [= Severaisse stream, near Saint-Foimin (Hautes-Alpes)].

atroluteus (GOETGHEBUER, 1934): *Bulletin et Annales de la Société Entomologique de Belgique* **74**(10): 339 (*Orthocladius*). Type-locality: [Germany] "Larves dans une source, à 1050 m. d'altitude (G.-P)" [= Larvae in a spring, at an altitude of 1050 metres (Garmisch-Partenkirchen)].

curtistylatus (GOETGHEBUER, 1934): *Bulletin et Annales de la Société Entomologique de Belgique* **74**(10): 339 (*Orthocladius* (*Dactylocladius*); as nom. nov. for *Orthocladius* (*Dactylocladius*) *curtistylus* Goetghebuer, 1933 nec *Psectrocladius curtistylus* Goetghebuer, 1921 when both in *Orthocladius*).

curtistylus (GOETGHEBUER, 1933): *Bulletin et Annales de la Société Entomologique de Belgique* **73**(11): 358 (*Orthocladius* (*Dactylocladius*)). Type-locality: [France, Isère] "Haut Vénéon, à 3 km. en amont de la Bérarde" [= Haut Vénéon,

about 3 kilometres upstream of Bérarde]. **Preoccupied** (in 1933). Junior secondary homonym of *Psectrocladius curtistylus* Goetghebuer, 1921 when both in *Orthocladius*).

unicentrus LIU & WANG, 2005: *Zootaxa* **802**: 5 (*Parorthocladius*). Type-locality: "P. R. CHINA: Guizhou Province, Maolan Natural Conservation (25° 23 N, 108° 04 E), alt. 420 m". — Distr.: **OR**: China (Guizhou, Guangdong).

sp.: CRANSTON, OLIVER & SÆTHER, 1983: *Entomologica Scandinavica Supplement* **19**: 190 (*Parorthocladius*). Locality: "Afrotropical Region". — Distr.: **AF**: Country not specified.

sp.: ROBACK & COFFMAN, 1987: *Proceedings of the Academy of Natural Sciences of Philadelphia* **139**(1): 122 (*Parorthocladius*). Localities: {Nepal} "NP69" [= "Small Tributary of Marsyandi, nr. Manang, . . . alt. 3392 m."]; "NP150" [= "Tributary of Marsyandi, below Chame . . . alt. 2470 m."]. — Distr.: **OR**: Nepal.

sp.: OLIVER, DILLON & CRANSTON, 1990: *Agriculture Canada,* Publication **1857/B**: 35 (*Parorthocladius*). Localities: [Canada] "B.C." [= British Columbia]; "Alta." [= Alberta]; "Ont." [= Ontario]; [U.S.A.] "Oreg." [= Oregon]; "Mont." [= Montana]. — Distr.: **NE**: Canada (Alberta, British Columbia, Ontario), U.S.A. (Montana, Oregon).

Nomina dubia probably in PARORTHOCLADIUS

oxyrhynchus (LINEVICH, 1963): *Trudy Limnologicheskogo Instituta* **1**: 30 (*Orthocladius*). Type-locality: [Russia, East Siberia] **v Baikal′skikh ruch′yakh** [= in Lake Baikal streams].

Genus **PAULFREEMANIA** CRANSTON & KROSCH

PAULFREEMANIA CRANSTON & KROSCH, 2011: *New Zealand Entomologist* **34**: 78. Type-species: *Orthocladius pictipennis* Freeman, 1959, by original designation.

pictipennis (FREEMAN, 1959): *Bulletin of the British Museum (Natural History)*

Entomology **7**(9): 419 (*Orthocladius*). Type-locality: {New Zealand} "Wellington: Ohakune". — Distr.: **AU**: New Zealand (North Island, South Island).

Genus **PETALOCLADIUS** SUBLETTE & WIRTH

PETALOCLADIUS SUBLETTE & WIRTH, 1972: *Florida Entomologist* **55**(1): 1. Type-species: *Petalocladius setosus* Sublette & Wirth, 1972, by original designation.

setosus SUBLETTE & WIRTH, 1972: *Florida Entomologist* **55**(1): 2 (*Petalocladius*). Type-locality: "Hardwar Gap, Jamaica". — Distr.: **NT**: Jamaica.

Genus **PHYSONEURA** FERRINGTON & SÆTHER

PHYSONEURA FERRINGTON & SÆTHER, 1995: *Aquatic Insects* **17**(1): 58. Type-species: *Spaniotoma* (*Smittia*) *nigroflava* Edwards, 1931, by original designation.

costalis (EDWARDS, 1931): *Diptera of Patagonia and South Chile* **2**(5): 302 (*Corynoneura* (*Thienemanniella*)). Type-locality: [Argentina] "L. Gutierrez". — Distr.: **NT**: Argentina.

minuscula (EDWARDS, 1931): *Diptera of Patagonia and South Chile* **2**(5): 301 (*Spaniotoma* (*Smittia*)). Type-locality: [Argentina] "Castro". — Distr.: **NT**: Chile.

nigroflava (EDWARDS, 1931): *Diptera of Patagonia and South Chile* **2**(5): 300 (*Spaniotoma* (*Smittia*)). Type-locality: [Argentina] "Bariloche". — Distr.: **NT**: Argentina.

paulseni STUR & ANDERSEN, 2000: *Norwegian Journal of Entomology* **47**(2): 132 (*Physoneura*). Type-locality: "Ecuador: Chimborazo Province: Refugio Hermanos Carrel, 4.800 m a. s. l.". — Distr.: **NT**: Ecuador.

Genus **PHYTOTELMATOCLADIUS** EPLER

PHYTOTELMATOCLADIUS EPLER, 2010: *Proceedings of the XV International Symosium on Chironomidae*: 286. Type-species: *Phytotelmatocladius delarosai* Epler,

2010, by original designation.

delarosai EPLER, 2010: *Proceedings of the XV International Symosium on Chironomidae*: 288 (*Phytotelmatocladius*). Type-locality: "U.S.A., Florida, Highlands County, Riverwoods Field Laboratory at Cornwall". — Distr.: **NE**: U.S.A. (Florida); **NT**: Brazil.

Genus **PIRARA** BOOTHROYD & CRANSTON

PIRARA BOOTHROYD & CRANSTON, 1995: *Chironomids: from genes to ecosystems*: 391. Type-species: *Pirara matakiri* Boothroyd & Cranston, 1995, by original designation.

australiensis BOOTHROYD & CRANSTON, 1995: *Chironomids: from genes to ecosystems*: 397 (*Pirara*). Type-locality: "36°36'S 149°47'E, Australia, New South Wales, Brown Mt., Rutherford Creek". — Distr.: **AU**: Australia (Australian Capital Territory, New South Wales, Queensland, Victoria).

edwardi CRANSTON, 2000: *Memoirs of the Queensland Museum* **46**(1): 115 (*Pirara*). Type-locality: "Argentina: 16km S San Martin, Arroyo Partida". — Distr.: **NT**: Argentina.

matakiri BOOTHROYD & CRANSTON, 1995: *Chironomids: from genes to ecosystems*: 396 (*Pirara*). Type-locality: "37°23'S 175°52'E, New Zealand, North Island, Waihi, Ohinemuri River, 100 m asl". — Distr.: **AU**: New Zealand (North Island).

Genus **PLATYSMITTIA** SÆTHER

PLATYSMITTIA SÆTHER, 1982: *Entomologica Scandinavica* **13**(4): 503. Type-species: *Platysmittia fimbriata* Sæther, 1982, by original designation.

bilyji SÆTHER, 1985: *Entomologica Scandinavica* **15**(4): 528 (*Platysmittia*). Type-locality: "CANADA: MANITOBA: Duck Mountains, Cowan Creek". — Distr.: **NE**: Canada (Manitoba, Ontario), U.S.A. (Maryland, Pennsylvania); **PA**: Mongolia, Russia (Far East).

fimbriata SÆTHER, 1982: *Entomologica Scandinavica* **13**(4): 505 (*Platysmittia*). Type-locality: "U.S.A. . . . spring on Rt. 441, 12 miles southeast of Gatlinburg, Sevier Co., Tennessee". — Distr.: **NE**: U.S.A. (Georgia, Maryland, North Carolina, Ohio, Pennsylvania, Tennessee).

Genus **PLHUDSONIA** SÆTHER

PLHUDSONIA SÆTHER, 1982: *Entomologica Scandinavica* **13**(4): 466. Type-species: *Plhudsonia partita* Sæther, 1982, by original designation.

acuticauda SÆTHER, 1992: *Entomologica Scandinavica* **22**(4): 380 (*Plhudsonia*). Type-locality: "ISRAEL: drift in river 10 km east of Tubas". — Distr.: **PA**: Israel.

partita SÆTHER, 1982: *Entomologica Scandinavica* **13**(4): 467 (*Plhudsonia*). Type-locality: "U.S.A. . . . spring on Rt. 441, 12 miles southeast of Gatlinburg, Sevier Co., Tennessee". — Distr.: **NE**: Canada (Nova Scotia), U.S.A. (Tennessee).

partitata: incorrect original spelling.

Genus **PROPSILOCERUS** KIEFFER

PROPSILOCERUS KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 169. Type-species: *Propsilocerus lacustris* Kieffer, 1923, by original designation. [**Note**]

SYNPSILOCERUS KIEFFER, 1923: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **9**: 3. Type-species: *Orthocladius paradoxus* Lundström, 1915, by original designation. Synonymized with *Propsilocerus* Kieffer, 1923, by Ashe (1983: *Entomologica Scandinavica Supplement* **17**: 51).

TOKUNAGAYUSURIKA SASA, 1978: *Japanese Journal of Sanitary Zoology* **29**(2): 94. Type-species: *Spaniotoma* (*Orthocladius*) *akamusi* Tokunaga, 1938, by original designation. Synonymized with *Propsilocerus* Kieffer, 1923, by Sæther & Wang (1996: *Entomologica Scandinavica* **27**(4): 442).

TOKUNAGAYUSURIKA SASA & YAMAMOTO, 1977: *Japanese Journal of Sanitary Zoology* **28**(3): 308. Type-species: *Spaniotoma* (*Orthocladius*) *akamusi* Tokunaga,

1938, by original designation. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

akamusi (TOKUNAGA, 1938): *Philippine Journal of Science* **65**(4): 317 (*Spaniotoma* (*Orthocladius*)). Type-locality: "Honshu, Japan . . . Osaka". — Distr: **PA**: China (Hebei, Liaoning, Tianjin), Japan, Russia (East Siberia, **?**Far East), South Korea; **OR**: China (Hubei, Zhejiang).

sexpapilosus (YAN & YE, 1977): *Acta Entomologica Sinica* **20**(2): 194 (*Chaetocladius*). Type-locality: {China, Bai-Yang-Dian Lake} "Sin-An, Hopei Province" [= Hebei Province].

amurensis MAKARCHENKO & MAKARCHENKO, 2009: *Evraziatskii Entomologicheskii Zhurnal* **8**(2): 261 (*Propsilocerus*). Type-locality: "mouth of Kharpi River (Amur River basin), Amursky District, Khabarovsk Territory, Russian Far East". — Distr.: **PA**: Russia (Far East).

jacuticus (ZVEREVA, 1950): *Entomologicheskoe Obozrenie* **31**(1/2): 273 (*Syndiamesa*). Type-localities: [Russia, Northern European Territory] **Staritsa r. Vychegdy — Ozelty** [= Ozelty, a dead channel of the River Vychegda]; **Staritsa r. Sysoly — Elyaty** [= Yelyaty (not Elyaty), a dead channel of the River Sysola]. — Distr.: **PA**: Finland, Russia (NET, SET, West Siberia).

lacustris KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 169 (*Propsilocerus*). Type-locality: "Allemagne du Nord : larves dans le lac de Schwerin" [= northern Germany : larvae in Lake Schwerin]. — Distr.: **PA**: Germany, Hungary, Kaliningrad, Lithuania, Netherlands, Poland, Romania, Slovakia, Ukraine.

danubialis BOTNARIUC & ALBU, 1956: *Buletin Ştiinţific Academia Republicii Populare Române* **8**(2): 497 (*Propsilocerus*). Type-localities: [Romania] "în numeroase puncte din delta Dunării" [= in numerous places in the Danube delta]; "Tri-Ozera"; "Bogdaproste"; "Matița"; "Isacovo"; "Roşu"; "Roşuleț"; "Vostocinoe"; "Uzlina"; "Cleşciovo"; "Bacina"; "Serhănoiul-Mare"; "Țihai

etc.".

lusatiensis BARTHELMES, 1964: *Internationale Revue der gesamten Hydrobiologie und Hydrographie* **49**(4): 612 (*Propsilocerus*). Type-locality: [Germany, Berlin] [p. 611] "in Teichen der Karpfenteichwirtschaft Peitz bei Cottbus" [= in ponds of the Peitz carp pond facility near Cottbus; [p. 618] "im Kleinen Tuefelsteich (17.5 ha) und im Reiherteich (10 ha)" [= in the small Tuefelsteich (17.5 hectares) and in the Reiherteich (10 hectares)].

orielicus PANKRATOVA, 1970: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **102**: 116 (*Propsilocerus*; validation of "Orthocladiinae gen.? l. *orielica*" Chernovskii, 1949). Type-localities: **Ukraina** [= Ukraine] ; **Rumyniya** [= Romania]; **Pol'sha** [= Poland].

orielicus (CHERNOVSKII, 1949): *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 140 (as "Orthocladiinae gen.? l. *orielica*"). Type-locality: [Ukraine] **r. Oriel' Dnepropetrovskoi oblasti** [= River Oriel Dnipropetrovsk Oblast]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**.

paradoxus (LUNDSTRÖM, 1915): *Résultats scientifiques de l'Expédition Polaire Russe en 1900-1903, sons la direction du Baron E. Toll. Section E: Zoologie* 2(8). *Zapiski Imperatorskoi Akademii Nauk, Série* 8, *Classe physico-mathématique* **29**(8): 14 (*Orthocladius*). Type-locality: [Russia, East Siberia] "Ins. Neu-Sibirien, Südufer, Holzgebirge" [= New Siberian Islands, south coast, Holz Mountains]. — Distr.: **PA**: China (Inner Mongolia, Liaoning, Tianjin), **?**Finland, Kaliningrad, Mongolia, Russia (NET, East Siberia, Far East), Sweden, Ukraine.

komensis (ZVEREVA, 1950): *Entomologicheskoe Obozrenie* **31**(1-2): 275 (*Syndiamesa*). Type-locality: [Russia, Northern European Territory] **Ozero Yusyavad — poima Vychegdy** [= Lake Yusyavad — flood plain of the River Vychegda].

saetheri WANG, LIU & PAASIVIRTA, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 310 (*Propsilocerus*). Type-locality: "NORTH FINLAND: Lapland, Inari, Ivalo Village, River Ivalojoki, 68°42'N, 27°30'E". — Distr.: **PA**: Finland.

sinicus SÆTHER & WANG, 1996: *Entomologica Scandinavica* **27**(4): 457 (*Propsilocerus*). Type-locality: "CHINA: Hebei, Tianjin, Ji County, Yuqiao Reservoir". — Distr.: **PA**: China (Liaoning, Tianjin).

taihuensis (WEN, ZHOU & RONG, 1994): *Entomotaxonomia* **16**(3): 206 [210] (*Tokunagayusurika*). Type-locality: [p. 210, English Summary] {Taihu Lake, China} "the Lake-shore Area, Wuxi City, Jiangsu Province". — Distr.: **OR**: China (Jiangsu).

taimyrus ZELENTZOV, 2000: *Zoologicheskii Zhurnal* **79**(10): 1242 (*Propsilocerus*). Type-locality: **Rossiya, p-v Taimyr, 5—6 km zapadnee g. Noril'ska, stantsiya Azharki** [= Russia, Taimyr Peninsula, 5—6 kilometres west of the town of Norilsk, Azharki Station]. — Distr.: **PA**: Russia (East Siberia).

sp.: CRANSTON, BARLEY, LANGLEY (née CHASE), DIEFFENBACHER-KRALL, LONGMUIR, & ZLOTY, 2011: *Aquatic Insects* **33**(4): 344 (*Propsilocerus*). Locality: "CANADA: British Columbia, Alice Arm, nr Kitsault, 55° 24′ 53''N 129° 25′ 23''W". — Distr.: **NE**: Canada (British Columbia). **[Note]**

Genus **PROSMITTIA** BRUNDIN

PROSMITTIA BRUNDIN, 1956: *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 165. Type-species: *Pseudosmittia jemtlandica* Brundin, 1947, by original designation.

SHINANOYUSURIKA SASA & HIRABAYASHI, 1991: *Japanese Journal of Sanitary Zoology* **42**(2): 116. Type-species: *Shinanoyusurika kamiquarta* Sasa & Hirabayashi, 1991, by original designation. Synonymized with *Prosmittia* Brundin, 1956, by Sæther & Ferrington (1993: *Journal of the Kansas Entomological Society* **66**(3): 258). **[Note]**

SHINANOYASURIKA: incorrect original spelling.

TOGASMITTIA SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 163. Type-species: *Togasmittia togarotunda* Sasa & Okazawa, 1992 [= *Pseudosmittia jemtlandica* Brundin, 1947], by original designation. Synonymized with *Prosmittia* Brundin, 1956, by Sæther & Ferrington (1993: *Journal of the Kansas Entomological Society* **66**(3): 258).

TOGASMITTIA SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120. Type-species: *Togasmittia togarotunda* Sasa & Okazawa, 1991 [= *Pseudosmittia jemtlandica* Brundin, 1947], by original designation. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

ETCHUYUSURIKA SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 138. Type-species: *Etchuyusurika togacurva* Sasa & Okazawa, 1992, by monotypy. Synonymized with *Prosmittia* Brundin, 1956, by Sæther, Ashe & Murray (2000: *Manual of Palaearctic Diptera* **4** (Appendix): 183).

ETCHUYUSURIKA SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120. Type-species: *Etchuyusurika togacurva* Sasa & Okazawa, 1991, by original designation. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

HIBARASMITTIA SASA & SUZUKI, 1998: *Tropical Medicine* **40**(1): 27 (as subgenus of *Pseudosmittia* Edwards, 1932). Type-species: *Pseudosmittia* (*Hibarasmittia*) *hibaraundecima* Sasa & Suzuki, 1998, by original designation. Synonymized with *Prosmittia* Brundin, 1956, by Sæther, Ashe & Murray (2000: *Manual of Palaearctic Diptera* **4** (Appendix): 183).

anyuiica MAKARCHENKO & MAKARCHENKO, 2009: *Evraziatskii Entomologicheskii Zhurnal* **8**(1): 122 (*Prosmittia*). Type-locality: "Zabytyi Sream, tributary of Gobili River, Aniui River basin (tributary of Amur River), Nanaisky District,

Khabarovsk Territory, Russian Far East, N 49°13'275", E 138°15'814" ". — Distr.: **PA**: Russia (Far East).

furudoseptima (SASA & ARAKAWA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 97 (*Epoicocladius*). Type-locality: [Japan] [Introduction, p. 88] "Furudo . . . a man-made lake constructed in a hilly area of Ikeda, southern part of Toyama-shi". — Distr.: **PA**: Japan.

hibaraundecima (SASA & SUZUKI, 1998): *Tropical Medicine* **40**(1): 27 (*Pseudosmittia* (*Hibarasmittia*)). Type-locality: {Japan} [p. 26] "northern Honshu . . . in the Aizu area, Fukushima"; [p. 27] "on the shore of Lake Hibara". — Distr.: **PA**: Japan.

itachinudiocula (SASA & KAWAI, 1987): *Bulletin of the Toyama Science Museum* **10**: 59 (*Smittia*). Type-locality: {Japan, Stream Itachigawa, Toyama} "on the shore of the Itachigawa at Station No.4". — Distr.: **PA**: Japan.

itachituberculata (SASA & KAWAI, 1987): *Bulletin of the Toyama Science Museum* **10**: 60 (*Smittia*). Type-locality: {Japan, Stream Itachigawa, Toyama} "on the bank of the Itachigawa . . . at Station 4". — Distr.: **PA**: Japan.

jemtlandica (BRUNDIN, 1947): *Arkiv för Zoologi* **39A**: 41 (*Pseudosmittia*). Type-locality: {Sweden} "Jmtl. Jormsjön . . . am Seeufer in der Nähe der Mündung des Blåsjöälven" [= Jämtland, Jormsjön . . . on the lake shore near the mouth of the Blåsjöälven] [Lectotype designated in Cranston & Oliver, 1988: *Canadian Entomologist* **120**(5): 450, "SWEDEN, Jämtland, Jormsjön"]. — Distr.: **PA**: Austria, Finland, Japan, Netherlands, Norway, Romania, Sweden.

jintusexta (SASA, 1990): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1990**: 48 (*Pseudosmittia*). Type-locality: {Japan, Toyama, Jintsu River} "at No.2, Kiritani".

togarotunda (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 164 (*Togasmittia*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 164] "Station 11".

togarotunda SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120 (*Togasmittia*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

kurojekea (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 30 (*Pseudosmittia*). Type-locality: [Japan] "at the side of Kuroyon Lake (Kuroyon Lodge)".

kamiquarta (SASA & HIRABAYASHI, 1991): *Japanese Journal of Sanitary Zoology* **42**(2): 116 (*Shinanoyusurika*). Type-locality: [Japan] "at Kamikochi". — Distr.: **PA**: Japan, Russia (Far East).

kibaprima (SASA & SUMITA, 1998): *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 72 (*Epoicocladius*). Type-locality: {Japan} [Abstract, p. 70] "on the shore of Lake Kibagata, located near the Japan Sea in Ishikawa Prefecture"; [p. 72] "Kibagata". — Distr.: **PA**: Japan.

rectangularis TUISKUNEN, 1985: *Annales Entomologici Fennici* **51**(2): 55 (*Prosmittia*). Type-locality: "Finland, Le, Enontekiö (762:28)". — Distr.: **PA**: Finland, Russia (Far East).

taishodeea (SASA & TANAKA, 2001): *Annual Report of the Gunma Prefecture Institute of Public Health and Environmental Science* **33**: 55 (*Eukiefferiella*). Type-locality: {Japan} [Abstract, p. 41] "Tone River, Gunma Prefecture"; [p. 55] "Taisho Bridge". — Distr.: **PA**: Japan.

tauiensis MAKARCHENKO & MAKARCHENKO, 2007: *Russian Entomological Journal* **16**(1): 120 (*Prosmitta*). Type-locality: "Khayandzha River, Taui River basin, Okhotsk Sea coast of Magadan region, Russian Far East".— Distr.: **PA**: Russia (Far East).

togacurva (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 138 (*Etchuyusurika*). Type-

locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 138] "at St. 11" [= at Station 11]. — Distr.: **PA**: Japan.

togacurva (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120 (*Etchuyusurika*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

valentinae BARANOV, 2011: *Vestnik Zoologi* **45**(5): 407 (*Prosmittia*). Type-locality: "Ukraine: Crimean Peninsula, Yalta, mouth of the Ucahnsu River, 44°49' N 34°16' E". — Distr.: **PA**: Ukraine.

verae KRASHENINNIKOV & MAKARCHENKO, 2008: *Kavkazskii Entomologicheskii Byulleten* **4**(3): 359 (*Prosmitta*). Type-locality: **Rossiya, Krasnodarskii kr., okr. Sochi, r. Agura, u podnozhiya g. Malyi Akhun** [= Russia, Krasnodar Krai, vicinity of Sochi, River Agura, at the foot of Malyi Akhun Mountain]. — Distr.: **PA**: Russia (SET).

yakytaira (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(2): 95 (*Pseudosmittia*). Type-locality: {Yakushima Island, Southwestern Japan} "Shirotani River". — Distr.: **PA**: Japan.

Genus **PSECTROCLADIUS** KIEFFER

PSECTROCLADIUS KIEFFER, 1906: *Genera Insectorum* **42**: 26 (as subgenus of *Orthocladius* Wulp, 1874). Type-species: *Orthocladius* (*Psectrocladius*) *psilopterus* Kieffer, 1906, by subsequent designation of Kieffer (1906: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **30**: 356). Senior homonym of *Psectrocladius* Kieffer, 1906 (below).

PSECTROCLADIUS KIEFFER, 1906: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **30**: 356 (as subgenus of *Orthocladius* Wulp, 1874). Type-species:

Orthocladius (*Psectrocladius*) *psilopterus* Kieffer, 1906, by original designation. **Preoccupied**. Junior homonym of *Psectrocladius* Kieffer, 1906 (above). [**Note**]

ALLOPSECTROCLADIUS WÜLKER, 1956: see below as subgenus.

MESOPSECTROCLADIUS LAVILLE, 1972: see below as subgenus.

MONOPSECTROCLADIUS WÜLKER, 1956: see below as subgenus.

PSECTROCLADIUS KIEFFER, 1906: see below as subgenus.

Subgenus **ALLOPSECTROCLADIUS** WÜLKER

ALLOPSECTROCLADIUS WÜLKER, 1956: *Archiv für Hydrobiologie Supplement* **24**(1): 12 (as subgenus of *Psectrocladius* Kieffer, 1906). Type-species: *Chironomus dilatatus* authors nec Wulp, 1859 [= *Chironomus obvius* Walker, 1856], by original designation.

conjungens (BRUNDIN, 1947): *Arkiv för Zoologi* **39A**: 27 (*Chaetocladius*). Type-locality: {Sweden} "Sm. Gem. Gårdsby . . . an einem Moorgraben am Ufer des Glassjön" [= Småland, Gårdsby Municipality . . .in a bog ditch on the shore of Glassjön]. — Distr.: **PA**: Finland, France, Sweden. [**Note**]

conjugens: incorrect subsequent spelling.

flavus (JOHANNSEN, 1905): *Bulletin of the New York State Museum* **86**: 270 (*Orthocladius*). Type-locality: [U.S.A.] "from pond water . . . Ithaca N. Y." [N. Y. = New York]. — Distr.: **NE**: Canada (Saskatchewan), U.S.A. (Illinois, New York, Pennsylvania, South Dakota).

nigrus ROBACK, 1957: *Monographs of the Academy of Natural Sciences of Philadelphia* **9**: 88 (*Psectrocladius*). Type-locality: [U.S.A., Pennsylvania, near Philadelphia] "Pond just below route 320 between 23 and alternate route 23". — Distr.: **NE**: Canada (Alberta), U.S.A. (Pennsylvania).

obvius (WALKER, 1856): *Insecta Britannica Diptera* **3**: 174 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England]. — Distr.: **NE**: Canada (Northwest Territories, Québec); **PA**: Algeria, Austria, Belgium, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Great Britain, Hungary, **?**Iceland, Ireland, Italy, Kaliningrad, Moldova, Mongolia, Morocco,

Netherlands, Norway, Poland, Portugal, Romania, Russia (CET, NET, SET, East Siberia, Far East), Slovakia, Spain, Sweden, Switzerland, Turkey, Ukraine.

oppertus (WALKER, 1856): *Insecta Britannica Diptera* **3**: 183 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England]. [**Note**]

dilatatus (WULP, 1859): *Tijdschrift voor Entomologie* **2**: 167 (*Chironomus*). Type-locality: [Netherlands] "'s Gravenhage". Senior primary homonym of *Chironomus dilatatus* Wulp, 1859 (*Bouwstoffen voor eene fauna van Nederland* **3**: 7) and *Chironomus dilatatus* Wulp, 1859 (*Bouwstoffen voor eene fauna van Nederland* **3**: 32). [**Note**] **- See Addendum, page 968.**

dilatus; *dilitatus*: incorrect subsequent spellings.

dilatatus (WULP, 1859): *Bouwstoffen voor eene fauna van Nederland* **3**: 7 (*Chironomus*; as "*Dilatatus*"). Type-locality: [Publication Title] "Nederland" [= Netherlands]; [p. 7] "'s Gravenhage". **Preoccupied**. Junior primary homonym of *Chironomus dilatatus* Wulp, 1859 (*Tijdschrift voor Entomologie* **2**: 167).

dilatatus (WULP, 1859): *Bouwstoffen voor eene fauna van Nederland* **3**: 32 (*Chironomus*; as "*Dilatatus*"). Type-locality: [Publication Title] "Nederland" [= Netherlands]. **Preoccupied**. Junior primary homonym of *Chironomus dilatatus* Wulp, 1859 (*Tijdschrift voor Entomologie* **2**: 167).

extensus KIEFFER in KIEFFER & THIENEMANN, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 10 (*Psectrocladius*). Type-locality: Not given ‖►Type-localities: [Germany] "Insel Rügen" [= island of Rügen]; "Hamburg", in Kieffer in Kieffer & Thienemann, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 33◄‖. Senior primary homonym of *Psectrocladius extensus* Kieffer, 1908 (below).

extensus KIEFFER in KIEFFER & THIENEMANN, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 33 (*Psectrocladius*). Type-localities: [Germany] "Insel Rügen" [= island of Rügen]; "Hamburg". **Preoccupied**. Junior primary homonym of *Psectrocladius extensus* Kieffer, 1908 (above).

platypus (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 333

(*Spaniotoma* (*Psectrocladius*)). Type-locality: [Great Britain] "Brodick, Arran"; "Whernside and Austwick, Yorks." [Yorks. = Yorkshire]. — Distr.: **PA**: Algeria, Austria, Balearic Islands, Belgium, Denmark, Finland, France, Germany, Great Britain, Ireland, Netherlands, Norway, Poland, Portugal, Russia (CET, NET), Slovakia, Spain, Sweden, Turkey.

pilosus ROBACK, 1957: *Monographs of the Academy of Natural Sciences of Philadelphia* **9**: 88 (*Psectrocladius*). Type-locality: [U.S.A.] "Shanes Run near Friendship, N. J.; southwest of Eagle and Chaddsford, N. J." [N. J. = New Jersey]. — Distr.: **NE**: U.S.A. (Florida, Georgia, Maine, New Jersey, South Dakota).

shofukuoctavus SASA, 1998: *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 38 (*Psectrocladius* (*Monopsectrocladius*)). Type-locality: {Japan} [Abstract, p. 14] "in the Shofuku Garden, . . . about 1 km from the mouth of Kurobe River". — Distr.: **PA**: Japan.

shofukunonus SASA, 1998: *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 40 (*Psectrocladius* (*Psectrocladius*)). Type-locality: {Japan} [Abstract, p. 14] "in the Shofuku Garden, . . . about 1 km from the mouth of Kurobe River". — Distr.: **PA**: Japan.

Subgenus **MESOPSECTROCLADIUS** LAVILLE

MESOPSECTROCLADIUS LAVILLE, 1972: *Annales de Limnologie* **7**(2): 195 (as subgenus of *Psectrocladius* Kieffer, 1906). Type-species: *Psectrocladius barbatipes* Kieffer, 1923, by original designation. [**Note**]

barbatipes KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 144 (*Psectrocladius*). Type-locality: [Czech Republic] "Bohême : Trebitsch" [= Bohemia :Třebíč]. — Distr.: **PA**: Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Morocco, Norway, Portugal, Slovakia.

seiryuheius SASA, SUZUKI & SAKAI, 1999: *Tropical Medicine* **40**(3): 108 (*Psectrocladius*). Type-locality: [Abstract, p. 99] "Shimanto River, western

Shikoku Island, Japan"; [p. 108] "Nakamura". — Distr.: **PA**: Japan.

Subgenus **MONOPSECTROCLADIUS** WÜLKER

MONOPSECTROCLADIUS WÜLKER, 1956: *Archiv für Hydrobiologie Supplement* **24**(1): 10 (as subgenus of *Psectrocladius* Kieffer, 1906). Type-species: *Spaniotoma* (*Psectrocladius*) *calcarata* Edwards, 1929, by original designation.

calcaratus (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 333 (*Spaniotoma* (*Psectrocladius*)). Type-locality: [Great Britain] "Lake Windermere". — Distr.: **NE**: Canada (Alberta, Northwest Territories), U.S.A. (Alabama); **PA**: Algeria, Belgium, Czech Republic, Denmark, Finland, France, Great Britain, Ireland, Netherlands, Norway, Poland, Romania, Russia (NET), Slovenia, Spitzbergen, Sweden, Turkey.

yukawana (TOKUNAGA, 1936): *Philippine Journal of Science* **60**(3): 314 (*Spaniotoma* (*Psectrocladius*)). Type-locality: "Japan . . . Yukawa, Wakayama Prefecture". — Distr.: **PA**: Japan.

Subgenus **PSECTROCLADIUS** KIEFFER

aquatronus SASA, 1979: *Research Report from the National Institute for Environmental Studies* **7**: 28 (*Psectrocladius*). Type-locality: {Japan} "concrete pools constructed in NIES" [NIES = National Institute for Environmental Studies, Ibaraki]. — Distr.: **PA**: Japan.

toyamajekeus (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 33 (*Orthocladius* (*Orthocladius*)). Type-locality: [Introduction, p. 16] "Japan . . . in the zoological garden called Toyama City Family Park on the foot of Kureha Hill"; [p. 17] "at the side of the ground pool "A." " [= Lake A, p. 16].

barbatimanus KIEFFER, 1926: *Norsk Entomologisk Tidsskrift* **2**: 82 (*Psectrocladius*). Type-locality: [Canada, Nunavut, Ellesmere Island] "Indre Eide" [Indre Eide = Inner Isthmus at Gåsefjord]. — Distr.: **NE**: Canada (Nunavut), Greenland.

barbimanus (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 333 (*Spaniotoma* (*Psectrocladius*)). Type-locality: [Great Britain] "Putney, S.W. London". — Distr.: **NE**: Canada (British Columbia, Northwest Territories, Saskatchewan), Greenland, U.S.A. (California, South Dakota); **PA**: Armenia, Austria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Iceland, Ireland, Italy, **?**Kazakhstan, **?**Lebanon, Lithuania, Mongolia, Netherlands, Norway, Poland, Romania, Russia (NET, SET, East Siberia, **?**West Siberia), Spain, Spitzbergen, Sweden, Switzerland, Tajikistan, Turkey, ¶Yugoslavia.

armatus ANDERSEN, 1937: *Meddelelser om Grønland* **116**(1): 56 (*Psectrocladius*). Type-locality: {Nordost-Grönlands} "Ulvesee, Ellainsel" [= Ulve Lake, Ella Island] [Nordost-Grönlands = north-east Greenland].

dispar AKHROROV, 1977: *Zoologicheskii Zhurnal* **56**(4): 545 (*Psectrocladius*). Type-locality: [Tajikistan] **Ostatochnyi vodoem na vostochnom kontse oz. Zorkul'** [= Residual reservoir at the eastern end of Lake Zorkul'].

goetghebueri AKHROROV, 1977: *Zoologicheskii Zhurnal* **56**(4): 547 (*Psectrocladius*). Type-locality: [Tajikistan] **Vostochnyi konets oz. Zorkul'** [= Eastern end of Lake Zorkul'].

pamiricus AKHROROV, 1977: *Zoologicheskii Zhurnal* **56**(4): 546 (*Psectrocladius*). Type-locality: [Tajikistan] **Ostatochnyi vodoem y vostochnogo kontsa oz. Zorkul'** [= Residual reservoir at the eastern end of Lake Zorkul'].

symbioticus AKHROROV, 1977: *Zoologicheskii Zhurnal* **56**(4): 548 (*Psectrocladius*). Type-locality: [Tajikistan] **Ostatochnyi vodoem verkhov'ya (vostochnogo konets) oz. Zorkul'** [= upper residual reservoir (eastern end) Lake Zorkul']. [**Note**]

tadshikistanicus AKHROROV, 1977: *Zoologicheskii Zhurnal* **56**(4): 544 (*Psectrocladius*). Type-locality: [Tajikistan] **Melkie vodoemy okrestnostei oz. Bol'shoi Kukdzhigit** [= Small reservoir in the vicinity of Lake Bol'shoi Kukdzhigit]. [**Note**]

zernovi AKHROROV, 1977: *Zoologicheskii Zhurnal* **56**(4): 547 (*Psectrocladius*). Type-locality: [Tajikistan] **Ruchei na vostochnom kontse oz. Zorkul'** [= Stream at the eastern end of Lake Zorkul']. **[Note]**

? *ishimicus* CHERNOVSKII, 1949: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 113 (*Psectrocladius*). Type-locality: Not given ‖ ►Type-locality: "Kazakhstan, Ishimskaya Step', oz. Chebaki" [= Kazakhstan, Ishim steppe, Lake Chebaki]◄ ‖. **Questionable synonym**. **[Note]**

bisetus GOETGHEBUER, 1942: *Bulletin du Musée Royal d'Histoire Naturelle de Belgique* **18**(46): 12 (*Psectrocladius*). Type-locality: "Autriche : Rotmoos (Alpines Hochmoor)" [= Austria : Rotmoos (Alpine high moor)]. — Distr.: **PA**: Austria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Kaliningrad, Mongolia, Netherlands, Norway, Romania, Russia (Far East), Sweden.

borealis KIEFFER in KIEFFER & THIENEMANN, 1919: *Entomologische Mitteilungen* **8**: 110 (*Psectrocladius*). Type-locality: "Spitzbergen, Kingsbai, Bäche und Tümpel" [= Spitzbergen, Kings Bay, streams and ponds]. — Distr.: **PA**: Spitzbergen.

brehmi KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 144 (*Psectrocladius*; as "*Brehmi*"). Type-locality: "Allemagne" [= Germany]. — Distr.: **PA**: Algeria, Austria, Czech Republic, Estonia, France, Germany, Italy, Morocco, Netherlands, Russia (NET), Slovakia, Switzerland.

delatoris ZELENTSOV, 1980: *Trudy Instituta Biologii Vnutrennikh Vod* **41**(44): 216 (*Psectrocladius* (*Psectrocladius*)). Type-localities: [Russia, Central European Territory] [p. 193] **iz raiona Rybinskogo vodokhranilishcha** [= in the vicinity of the Rybinsk Reservoir]; [p. 219] **Stoyachie i slaboprotochnye vodoemy Yaroslavskoi i Ivanovskoi obl.** [= Standing and slow-flowing waters in Yaroslavl and Ivanovo Oblasts]. — Distr.: **PA**: Netherlands, Russia (CET, NET, East Siberia).

dendrophilus ZVEREVA, 1950: *Entomologicheskoe Obozrenie* **31**(1/2): 279

(*Psectrocladius*). Type-localities: [Russia, Northern European Territory] **Vychegda, Sysola** [= River Vychegda, River Sisola]. — Distr.: **PA**: Russia (NET).

dubius SÆTHER & LANGTON, 2011: *Aquatic Insects* **33**(2): 144 (*Psectrocladius* (*Psectrocladius*)). Type-locality: "CANADA: Manitoba, 1 mile west of Whiteshell Provincial Park entrance on highway 1". — Distr.: **NE**: Canada (Manitoba, Ontario), U.S.A. (South Carolina).

dubius subsp. **dubius** SÆTHER & LANGTON, 2011: *Aquatic Insects* **33**(2): 144 (*Psectrocladius* (*Psectrocladius*)). Type-locality: "CANADA: Manitoba, 1 mile west of Whiteshell Provincial Park entrance on highway 1". — Distr.: **NE**: Canada (Manitoba, Ontario).

dubius subsp. **keoweensis** SÆTHER & LANGTON, 2011: *Aquatic Insects* **33**(2): 148 (*Psectrocladius* (*Psectrocladius*)). Type-locality: "USA: South Carolina, Pickens Co., Seneca, Keowee Reservoir, Little River Dam". — Distr.: **NE**: U.S.A. (South Carolina).

fabricus ZELENTSOV, 1980: *Trudy Instituta Biologii Vnutrennikh Vod* **41**(44): 195 (*Psectrocladius* (*Psectrocladius*)). Type-localities: [Russia, Central European Territory] [p. 193] **iz raiona Rybinskogo vodokhranilishcha** [= in the vicinity of the Rybinsk Reservoir]; [p. 216] **Stoyachie i slaboprotochnye vodoemy Yaroslavskoi, Vologodskoi i Permskoi oblastei** [= Standing and slow-flowing waters in Yaroslavl, Vologda and Perm Oblasts]. — Distr.: **PA**: Netherlands, Romania, Russia (CET, East Siberia).

famifegeus SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 56 (*Psectrocladius* (*Psectrocladius*)). Type-locality: [Introduction, p. 16] "Japan . . . in the zoological garden called Toyama City Family Park on the foot of Kureha Hill"; [p. 47] "at the side of Rokusen Lake" [= Lake B, p. 16]. — Distr.: **PA**: Japan.

fennicus STORÅ, 1939: *Notulae Entomologicae* **19**(1/2): 24 (*Psectrocladius*). Type-localities: [Finland] "K s. Kuusamo"; "Isosuo, Reisermoor"; "Kuolajärvi". —

Distr.: **NE**: Canada (Newfoundland and Labrador, Northwest Territories), Greenland; **PA**: Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Netherlands, Norway, Russia (CET, NET, East Siberia, Far East), Sweden.

formosae KIEFFER, 1923: *Annales de la Société Linnéene de Lyon* **69**: 40 (*Psectrocladius*). Type-locality: [Taiwan] {Formosa} "Hokuto". — Distr.: **OR**: Taiwan. [**Note**]

gotoheius SASA & SUZUKI, 2001: *Tropical Medicine* **42**(3/4): 160 (*Psectrocladius*). Type-locality: {Goto Islands, Western Japan} "Wani River". — Distr.: **PA**: Japan.

inawaopeus (SASA, KITAMI & SUZUKI, 2000): *Memoirs of the Museum of Dr. Hideyo Noguchi*: 20 (*Orthocladius* (*Orthocladius*)). Type-locality: [Japan] [Title, p. 2] "Lake Inawashiro, Fukishima Prefecture". — Distr.: **PA**: Japan.

jintuoctadecimus (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 68 (*Hydrobaenus*). Type-locality: [Japan] [p. 61, Introduction] "in Toyama Prefecture along the main stream of Jinzu River and its tributaries"; [p. 68] "at S. 6, Yawata". — Distr.: **PA**: Japan.

kangi REE & JEONG, 2010: *Korean Journal of Systematic Zoology* **26**(2): 138 (*Psectrocladius*). Type-locality: [South Korea] "Sinsau-dong, Chuncheon-si, Gangwon-do". — Distr.: **PA**: South Korea.

limbatellus (HOLMGREN, 1869): *Kungliga Svenska VetenskapsAkademiens Handlingar* **8**(5): 44 (*Chironomus*). Type-localities: [Norway] "Hab. in Spetsbergia ad Advent Bay et Kobbebay" [= Dwells in Spitzbergen at Advent Bay and Kobbe Bay]. — Distr.: **NE**: Canada (Manitoba, Nunavut), Greenland, U.S.A. (South Dakota); **PA**: Austria, Azores, Bear Island, Belgium, Canary Islands, Czech Republic, Denmark, Faroe Islands, Finland, France, Germany, Great Britain, Iceland, Ireland, Italy, Lebanon, Morocco, Netherlands, Norway, Novaya Zemlya, Poland, Portugal, Romania, Russia (NET, East Siberia), Sicily, Slovakia, Spain, Spitzbergen, Sweden, Switzerland, Turkey, Ukraine, United Arab Emirates.

edwardsi BRUNDIN, 1949: *Reports from the Institute of Freshwater Research,*

Drottningholm **30**: 816 (*Psectrocladius*; as "*Edwardsi*"). Type-locality: [Sweden] "See Skären in Småland" [= Lake Skären in Småland]. [**Note**]

litofilus AKHROROV, 1977: *Zoologicheskii Zhurnal* **56**(4): 544 (*Psectrocladius*). Type-locality: [Tajikistan] **Vostochnyi konets oz. Zorkul′ (Pamir)** [= Eastern end of Lake Zorkul′ (Pamirs)]. — Distr.: **PA**: Mongolia, Russia (NET), Tajikistan.

acatovae AKHROROV, 1977: *Zoologicheskii Zhurnal* **56**(4): 548 (*Psectrocladius*). Type-locality: [Tajikistan] **Ostatochnyi vodoem na vostochnom kontse oz. Zorkul′** [= Residual reservoir at the eastern end of Lake Zorkul′].

longipennis WANG & ZHENG, 1996: *Insects of the Karakorum-Kurun Mountains*: 163 (*Psectrocladius* (*Psectrocladius*)). Type-locality: [English Abstract, p. 165-166] [China] "Qinghai Province (Hoh Xil Lake), 4850m". — Distr.: **PA**: China (Qinghai).

nevalis AKHROROV, 1977: *Zoologicheskii Zhurnal* **56**(4): 546 (*Psectrocladius*). Type-locality: [Tajikistan] **Ostatochnyi vodoem na vostochnom kontse oz. Zorkul′** [= Residual reservoir at the eastern end of Lake Zorkul′]. — Distr.: **PA**: Tajikistan.

octomaculatus WÜLKER, 1956: *Archiv für Hydrobiologie Supplement* **24**(1): 15 (*Psectrocladius* (*Psectrocladius*)). Type-localities: [Germany] "Schwarzwald: . . . Tümpel oberhalb Feldberger Hof (1300 m)" [= Black Forest: . . . pools above Feldberger Hof (1300 metres)] ; "Helokrene im obersten Seebach-Quellgebiet (Feldberg, 1400 m)" [= Helocrene in the uppermost lake-brook spring region (Feldberg, 1400 metres)];. "Wiesengraben im Haslachtal unterhalb Falkau (900 m)" [= ditch in the meadow at Haslachtal below Falkau (900 metres)]; "Quelle bei Hinterzarten (1000 m)" [= Spring at Hinterzarten (1000 metres)]. — Distr.: **NE**: U.S.A. (Colorado); **PA**: Austria, **?**Canary Islands, Finland, France, Germany, Great Britain, Ireland, Italy, **?**Madeira, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Spitzbergen, Sweden, Switzerland. [**Note**]

oligosetus WÜLKER, 1956: *Archiv für Hydrobiologie Supplement* **24**(1): 22 (*Psectrocladius*

(*Psectrocladius*)). Type-locality: [Germany] "Schwarzwald: . . . Titisee" [= Black Forest: . . . Titisee]. — Distr.: **PA**: Austria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Moldova, Netherlands, Norway, Portugal, Russia (CET, NET), Sicily, Slovakia, Sweden. [**Note**]

oxyura LANGTON, 1985: *Entomologica Scandinavica* **15**(4): 482 (*Psectrocladius* (*Psectrocladius*)). Type-locality: [Great Britain] "England, Lake District, Cow Green Reservoir, near Hole Soke Bay". — Distr.: **PA**: Austria, Finland, France, Germany, Great Britain, Ireland, Italy, Netherlands, Norway, Slovakia, Spain, Spitzbergen, Sweden, Switzerland.

pancratovae AKHROROV, 1977: *Zoologicheskii Zhurnal* **56**(4): 539 (*Psectrocladius*). Type-locality: [Tajikistan] **Tadzhikskaya SSR, Gorno-Badakhshanskaya avtonomnaya oblast′ (GBAO), vostochnyi Pamir, ostatochnyi vodoem v zapadnom kontse oz. Bol′shoi Kukdzhigit** [= Tadzhikskaya SSR, Gorno-Badakhshanskaya Autonomous Oblast (GBAO), eastern Pamirs, residual reservoir at the western end of Lake Bol′shoi Kukdzhigit]. — Distr.: **PA**: Afghanistan, Tajikistan.

polaris KIEFFER, 1926: *Norsk Entomologisk Tidsskrift* **2**: 83 (*Psectrocladius*). Type-localities: [Canada, Nunavut, Ellesmere Island] "Havnen" [= Gåsefjord]; "Indre Eide" [= Inner Isthmus at Gåsefjord] [Lectotype designated in Sæther, Sublette & Willassen, 1984: *Entomologica Scandinavica* **15**(2): 256, "Canada: Northwest Territories, Ellesmere Island, "Havnen" (= Gåsefjord)"] [Northwest Territories = Nunavut]. — Distr.: **NE**: Canada (Nunavut); **PA**: Novaya Zemlya.

pseudostilatus AKHROROV, 1975: *Gidrobiologicheskii Zhurnal* **11**(2): 70 (*Psectroclaius*). Type-locality: [Tajikistan] **v verkhov′e Kairak-Kumskogo vodokhranilishcha, v raione Sol'promovskogo** [= in the upper reaches of the Kara-Kum Reservoir, in the district of Sol'promovsky]. — Distr.: **PA**: Tajikistan.

psilopterus (KIEFFER in KIEFFER & THIENEMANN, 1906): *Zeitschrift für Wissenschaftliche Insektenbiologie* **2**: 144 (*Orthocladius* (*Psectrocladius*)). Type-locality: [Germany] [p. 145] "Greifswald" [p. 149] "in einem flachen

Wiesentümpel in der Nähe von Greifswald" [= in a shallow meadow pond near Greifswald]. — Distr.: **NE**: U.S.A. (Ohio); **PA**: Austria, Bulgaria, Czech Republic, Denmark, Faroe Islands, Finland, France, Germany, Great Britain, Hungary, Iceland, Ireland, Italy, Kaliningrad, Netherlands, Norway, Poland, Romania, Russia (CET, NET, SET, East Siberia), Slovakia, Spain, Sweden, Switzerland, Turkey.

psilopterus (KIEFFER, 1906): *Genera Insectorum* **42**: 26 (*Orthocladius* (*Psectrocladius*)). Locality: "Allemagne" [= Germany]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

schlienzi WÜLKER, 1956: *Archiv für Hydrobiologie Supplement* **24**(1): 17 (*Psectrocladius* (*Psectrocladius*)). Type-localities: [Germany] "Schwarzwald: . . . Feldsee" [= Blackforest: . . . Feldsee]; "Windgfällweiher" [= Windgfäll pond]; "Stauteich am Einfluß des Schluchsees" [= Storage pond on the inflow of the Schluchsee]; "Titisee"; "Ursee"; "Löschteich bei Falkau" [= fire extinguishing pond at Falkau]; "Schlüchtsee". — Distr.: **PA**: Austria, Denmark, Finland, Germany, Great Britain, Italy, Moldova, Mongolia, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland. [**Note**]

semicirculatus SÆTHER, 1969: *Bulletin of the Fisheries Research Board of Canada* **170**: 79 (*Psectrocladius* (*Psectrocladius*)). Type-locality: [Canada] "in *Mougeotia*, 0.1-m depth, Lake 254, Fisheries Research Board of Canada Experimental Lakes Program, Kenora, Ont." [Ont. = Ontario]. — Distr.: **NE**: Canada (Ontario), U.S.A. (Ohio).

sensilipes SÆTHER & LANGTON, 2011: *Aquatic Insects* **33**(2): 135 (*Psectrocladius* (*Psectrocladius*)). Type-locality: "CANADA, Manitoba, 1 mile west of Whiteshell Provincial Park entrance on highway 1". — Distr.: **NE**: Canada (Manitoba, Saskatchewan).

simulans (JOHANNSEN, 1937): *Memoirs Cornell University Agricultural Experiment Station* **205**: 67 (*Spaniotoma* (*Psectrocladius*)). Type-locality: [U.S.A.] "in

Canal Pond, New York". — Distr.: **NE**: Canada (Alberta, Ontario, Saskatchewan), U.S.A. (Florida, Michigan, New York, North Carolina, Ohio, South Carolina); **PA**: Bulgaria, Estonia, Hungary, Kaliningrad, Lithuania, Mongolia, Poland, Romania, Russia (CET, NET, SET, East Siberia).

? *medius* CHERNOVSKII, 1949: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 112 (*Psectrocladius*). Type-locality: [Russia, Northern European Territory] **v severnykh ozerakh Evropeiskoi chasti SSSR** [= in northern lakes of the European part of the SSSR]. **Questionable synonym. [Note]**

sokolovae ZELENTZOV & MAKARCHENKO, 1988: *Fauna, Sistematika i Biologiya Presnovodnykh Bespozvonochnykh*: 40 (*Psectrocladius* (*Psectrocladius*)). Type-locality: [Russia] {Far East} **Magadanskaya oblast, raion Chaunskoi guby, tundrovoe ozero v nizov'e r. Chaun** [= Magadan Oblast, Chaunsky District inlet, tundra lakes in the lower reaches of the River Chaun]. — Distr.: **PA**: Novaya Zemlya, Russia (East Siberia, Far East).

sordidellus (ZETTERSTEDT, 1838): *Insecta Lapponica* [Heft 3]: 814 (*Chironomus*). Type-locality: "in Lapponia Umensi . . . ad Wilhelmina . . . (Lapponia Suecica meridionalis.)" [= in Umeå Lapland . . . at Wilhelmina (now Vilhelmina) . . . (southernmost Swedish Lapland.)]. — Distr.: **NE**: U.S.A. (Alaska); **PA**: Algeria, Austria, Azores, Belgium, Bosnia and Herzegovina, Canary Islands, Croatia, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Kaliningrad, Latvia, Lithuania, Morocco, Netherlands, Norway, Novaya Zemlya, Poland, Portugal, Romania, Russia (CET, NET, Far East), Slovakia, Spain, Sweden, Switzerland, Turkey.

exspatians (WALKER, 1856): *Insecta Britannica Diptera* **3**: 182 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England].

stratiotis KIEFFER, 1908: *Bulletin de l'Académie Royale de Belgique, Classe des Sciences* **1908** (8): 706 (*Psectrocladius*). Type-locality: [Belgium] "Larve dans les feuilles de *Stratiotes aloïdes* . . . Gand" [= Larva in the leaves of *Stratiotes*

aloïdes . . . Gand].

remotus KIEFFER in THIENEMANN, 1916: *Verhandlungen des Naturhistorischen Vereins der Preussischen Rheinlande, Westfalens und des Regierungsbezirks Osnabrück* **72**: 51 (*Psectrocladius*). Type-localities: [Germany] [p. 13] "auf dem Ulmener Maar" [= on the Ulmen Maar]; "aus dem Soestbach bei Soest i. W." [= from the Soest brook near Soest in Westphalia]. [**Note**]

remotus POTTHAST, 1914: *Archiv für Hydrobiologie Supplement* **2**(2) [Preprint]: 320 (*Psectrocladius*). Localities: [Germany] "Soestbach (Soest i. W.) oberhalb der Kläranlage" [= Soest brook (Soest in Westphalia) above the water purification plant]; "Ulmener Maar (Eifel)". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

? *albinervis* (WULP, 1875): *Tijdschrift voor Entomologie* **17**(5): 141 (*Orthocladius*). Type-localities: [Netherlands] "Utrecht"; "Driebergen". **Questionable synonym**.

subsenilis SÆTHER & LANGTON, 2011: *Aquatic Insects* **33**(2): 150 (*Psectrocladius* (*Psectrocladius*)). Type-locality: "CANADA: Ontario, Kenora, Experimental Lakes Area, Lake 13223". — Distr.: **NE**: Canada (Manitoba, Ontario).

togaminimus SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 121 (*Psectrocladius*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 121] "at Yakuba, Toga-mura". — Distr.: **PA**: Japan.

togaminimus SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Psectrocladius*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

tusimoreseus SASA & SUZUKI, 1999: *Tropical Medicine* **41**(2): 94 (*Psectrocladius* (*Psectrocladius*)). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 94] "Uchiyama". — Distr.: **PA**: Japan.

tusimoseteus SASA & SUZUKI, 1999: *Tropical Medicine* **41**(2): 95 (*Psectrocladius* (*Psectrocladius*)). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 95] "Uchiyama". — Distr.: **PA**: Japan.

ventricosus KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 558 (*Psectrocladius*; as "*ventriosus*"). Type-locality: "Nord de l'Allemagne : lac de Waterneverstorff" [= northern Germany : Waterneverstorff Lake]. — Distr.: **PA**: Austria, Azerbaijan, Denmark, Finland, Germany, Great Britain, Ireland, Moldova, Morocco, Netherlands, Russia (SET, East Siberia), Spitzbergen, Ukraine.

ventriosus: incorrect original spelling.

vernalis MALLOCH, 1915: *Bulletin of the Illinois State Laboratory of Natural History* **10**: 520 (*Psectrocladius*). Type-locality: [U.S.A.] "Dubois, Ill." [Ill. = Illinois]. — Distr.: **NE**: Canada (Ontario), U.S.A. (Alabama, California, Colorado, Florida, Georgia, Illinois, Louisiana, Minnesota, Mississippi, New York, North Carolina, Ohio, South Carolina, Utah, Wyoming). [**Note**]

versatilis LINEVICH, 1963: *Trudy Limnologicheskogo Instituta* **1**: 35 (*Psectrocladius*). Type-locality: [Russia, East Siberia] **beregam r. B. Koty, nedaleko ot berega Baikala ** [= shore of River Bol'shie Koty, from near the shore of Lake Baikal]. — Distr.: **PA**: Russia (East Siberia). [**Note**]

viridescens FREEMAN, 1953: *Proceedings of the Royal Entomological Society* (B) **22**(7/8): 133 (*Psectrocladius*). Type-locality: [South Africa] "Bergvliet". — Distr.: **AF**: South Africa, Zimbabwe.

yunoquartus SASA, 1984: *Research Report from the National Institute for Environmental Studies* **70**: 69 (*Psectrocladius*). Type-locality: [Japan] {Nikko National Park} "littoral zones of Lake Yunoko". — Distr.: **PA**: Japan. [**Note**]

yunoduarts; *yunoguartus*: incorrect original spellings.

zelentzovi MAKARCHENKO & MAKARCHENKO, 2003: *Evraziatskii Entomologicheskii Zhurnal* **2**(1): 62 (*Psectrocladius* (*Psectrocladius*)). Type-locality: **Rossiya, Primorskii kr, Khasanskii r-n, bezymyannoe solonovatoe ozero v okrestnostyakh pos. Perevoznaya** [= Russia, Primorsky Krai, Khasansky District, anonymous saline lake in the vicinity of the village of Perevoznaya]. — Distr.: **PA**: Russia (Far East).

zetterstedti BRUNDIN, 1949: *Reports from the Institute of Freshwater Research, Drottningholm* **30**: 816 (*Psectrocladius*; as "*Zetterstedti*"). Type-locality: [Sweden] "Skärshultsjön in Småland" [Lectotype designated in Cranston & Oliver, 1988: *Canadian Entomologist* **120**(5): 446, "SWEDEN, Småland, Skärshultsjön"]. — Distr.: **NE**: Canada (British Columbia, Ontario); **PA**: Finland, Germany, Netherlands, Norway, Poland, Russia (CET, NET, Far East), Sweden, Switzerland.

sp. 2 (*psilopterus* group): ROBACK, 1966: *Monographs of the Academy of Natural Sciences of Philadelphia* **14**: 324 (*Psectrocladius*). Locality: {Peru} "From the Amazonas beach pool". — Distr.: **NT**: Peru.

"*sordidellus* gr. sp.": ROBACK & COFFMAN, 1987: *Proceedings of the Academy of Natural Sciences of Philadelphia* **139**(1): 122 (*Psectrocladius* (*Psectrocladius*)). Locality: {Nepal} "NP55" [= "Reservoir nr. Langpoghyun Khola, across from Jomosom . . . alt. 2830 m."]. — Distr.: **OR**: Nepal.

Subgenerically unplaced valid species of PSECTROCLADIUS

brachiurus LINEVICH in LINEVICH, MAKARCHENKO & ALEKSANDROV, 2002: *Khironomidy Baikala i Pribaikal'ya*: 102 (*Psectrocladius*). Type-locality: {Russia, East Siberia} **bassein r. Angary, bereg Ordynskogo ozera** [= basin of the River Angara, shore of Lake Ordynsk]. — Distr.: **PA**: Russia (East Siberia).

brevicosta KIEFFER, 1917: *Annales Historico-Naturales Musei Nationalis Hungarici* **15**: 362 (*Psectrocladius*). Type-locality: "Etats-Unis: Washington, Pullman" [Etats-

Unis = United States of America]. — Distr.: **NE**: U.S.A. (Washington).

elatus ROBACK, 1957: *Monographs of the Academy of Natural Sciences of Philadelphia* **9**: 89 (*Psectrocladius*). Type-locality: [U.S.A.] "Shanes Run near Friendship, N. J.; southwest of Eagle and Chaddsford, N. J." [N. J. = New Jersey]. — Distr.: **NE**: Canada (Ontario), U.S.A. (Florida, Mississippi, Nebraska, New Jersey, New York, North Carolina, South Carolina).

pseudogigas LINEVICH in LINEVICH, MAKARCHENKO & ALEKSANDROV, 2002: *Khironomidy Baikala i Pribaikal'ya*: 103 (*Psectrocladius*). Type-locality: {Russia, East Siberia} **oz. Baikal, bereg Posol'skogo sora** [= Lake Baikal, shore litter at Posol'skii]. — Distr.: **PA**: Russia (East Siberia).

spinifer (JOHANNSEN, 1928): *Journal of Entomology and Zoology* **20**(2): 34 (*Orthocladius* (*Psectrocladius*)). Type-locality: [U.S.A., California] "larvae collected in the outlet of Elsinore Lake". — Distr.: **NE**: U.S.A. (California).

Nomina dubia in PSECTROCLADIUS

angorensis KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 121 (*Psectrocladius*). Type-locality: [Turkey] "Asia-Mineure: Angora " [= Asia Minor: Ankara].

anomalus KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 185 (*Psectrocladius*). Type-locality: [Introduction] "Allemagne" [= Germany].

barbatitarsis KIEFFER in THIENEMANN, 1916: *Verhandlungen des Naturhistorischen Vereins der Preussischen Rheinlande, Westfalens und des Regierungsbezirks Osnabrück* **72**: 52 (*Psectrocladius*). Type-locality: [Germany, Rhineland] [p. 13] "auf dem Weinfelder Maar" [= in the Weinfelder Maar]. [**Note**]

biensis LIPINA, 1949: *Trudy Zoologicheskogo Instituta, Leningrad* **7**: 199 (*Psectrocladius*). Type-locality: [Russia, West Siberia] **v Bii and Yan-Chili** [= in the Rivers Bii and Yan-Chili].

bifilis KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 146 (*Psectrocladius*). Type-locality: "Allemagne" [= Germany] ‖ ►Type-

locality: [Germany, Westphalia] "Aa oberhalb Münsters" [=Aa above Münster] in Thienemann, 1919: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst (Zoologische Sektion)* **47**: 30◄ ‖.

bifilis THIENEMANN, 1919: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst (Zoologische Sektion)* **47**: 30 (*Psectrocladius*). Locality: [Germany, Westphalia] "Aa oberhalb Münsters" [=Aa above Münster]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

curvicalcar GOETGHEBUER in GOETGHEBUER & LENZ, 1950: *Die Fliegen der Palaearktischen Region* **13g**: 152 (*Psectrocladius*). Type-locality: "Aus Holstein . . . Germania" [= From Holstein . . . Germany].

dampfi KIEFFER, 1929: *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg* **66**: 307 (*Psectrocladius*; as "*Dampfi*"). Type-locality: [Russia, Kaliningrad Region] "Zehlau-Hochmoor" [= Zehlau high moor].

dorsalis KIEFFER, 1909: *Bulletin de la Société d'Histoire Naturelle de Metz* **26**: 47 (*Psectrocladius*; as "*Dorsalis*"). Type-locality: {Allemagne} [= Germany] "Haltern" ‖►Type-locality: [Germany] "eines Fischteiches in Ahsen bei Haltern" [= a fish pond in Ahsen near Haltern] in Kieffer & Thienemann, 1909: *Jahresberichte des Westfälischen Provinzial-Vereins für Wissenschaft und Kunst* **37**: 31◄ ‖. [**Note**]

filiger KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 145 (*Psectrocladius*). Type-locality: [Germany] "Westphalie : rive de Niemöller" [= Westphala : bank of the Niemöller].

flaviventris KIEFFER, 1929: *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg* **66**: 309 (*Psectrocladius*). Type-locality: [Russia, Kaliningrad Region] "Hochfläche Zehlau" [= Zehlau plateau].

flavofasciatus KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 185 (*Psectrocladius*). Type-locality: "Autriche" [= Austria]. [**Note**]

furcatus KIEFFER, 1929: *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg* **66**: 309 (*Psectrocladius*). Type-locality: [Russia, Kaliningrad Region] "Zehlau".

fusiformis KIEFFER, 1929: *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg* **66**: 307 (*Psectrocladius*). Type-locality: [Russia, Kaliningrad Region] "Zehlau Hochmoor" [= Zehlau high moor].

heptamerus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 59 (*Psectrocladius*). Type-locality: [Poland] "Silésie: tourbières des Hauts-Plateaux" [= Silesia: moors of the highlands] and [Introduction, p. 11] "sur un haut plateau tourbeux, nommé Seefelder" [= on a highland moor, named Seefelder].

hirtimanus KIEFFER, 1918: *Entomologische Mitteilungen* **7**: 100 (*Psectrocladius*). Type-locality: [Poland] "Lazarettschiffzug Danzig, Frisches Haff" [= Hospital ship train, Danzig (now Gdańsk), Frisches Haff].

insularis STORÅ, 1945: *Commentationes Biologicae* **8**(10): 26 (*Psectrocladius*; as var. of *sordidellus* Zetterstedt, 1838). Type-localities: {Azoren} [= Azores] "Mig.: Sete Cidades, Lagoa Grande, am Ufer . . . im See . . . im Walde" [= San Miguel: Sete Cidades, Lagoa Grande, on the shore . . . in the lake . . . in the wood]; "Terc.: Bagacina, Moor" [= Terceira: Bagacina, bog]; "Fonduros"; "Jorge: Lagoa do Calheta, Wasserlachen" [Wasserlachen = puddles]; "Fay.: Caldeira, am Kraterboden . . . in der Kraterlachen" [= Faial: Caldeira, on the crater bottom . . . in the crater pool]; "Flor.: Santa Cruz" [Flor. = Flores]; "Corvo: auf der Hochebene mit kleinen Rinnsalen" [= Corvo: on the plateau with small rivulets]; "Caldeiras".

islandicus KIEFFER, 1913: *Bulletin de la Société d'Histoire Naturelle de Metz* **28**: 58 (*Psectrocladius*). Type-locality: [Introduction] "Islande" [= Iceland].

lapponicus GOETGHEBUER, 1940: *Bulletin et Annales de la Société Entomologique de Belgique* **80**(1): 63 (*Psectrocladius*). Type-locality: [Introduction, p. 55] "aux environs d'Abisko, en Laponie Suédoise" [= in the vicinity of Abisko, in

Swedish Lapland]; [p. 64] "près d'un lac, à 1000 m d'altitude" [= near a lake, at an altitude of 1000 metres].

longicercus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 58 (*Psectrocladius*). Type-locality: [Austria] "Basse Autriche" [= Lower Austria].

luteolus GOETGHEBUER, 1921: *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 102 (*Psectrocladius*). Type-locality: {Belgique} [p. 29] "à Destelbergen"; [p. 190] "Les Flandres", [Belgique = Belgium]. [**Note**]

marinus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 61 (*Psectrocladius*; as var. of *versicolor* Kieffer, 1918). Type-locality: [Germany] "Holstein, voltigeant au bord de la mer Baltique" [= Holstein, flying on the shore of the Baltic Sea].

murgabicus SINYAGINA, 1958: *Trudy Murgabskoi Gidrobiologicheskoi Stantsii* **4**: 229 (*Psectrocladius*). Type-localities: {Turkmenistan} **v zalive № 2 (verkhov'e) Tashkeprinskogo vodokhranilishcha** [= in bay № 2 (upper reaches) of Tashkeprinskoe Reservoir]; **v priplotinnoi chasti** [= in the part of the same reservoir near the dam]; **V bentose ozer Kelifskogo Uzboya: oz. Kargaly ** [= In the benthos of Kelifskii Uzboi Lakes: Lake Kargaly]. [**Note**]

najas KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 184 (*Psectrocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖►Type-locality: [Germany] "über der Hennetalsperre" [= above the Henne Dam] in Thienemann, 1911: *Landwirtschaftliche Jahrbücher* **41**: 637◄‖.

nivalis KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 57 (*Psectrocladius*). Type-locality: [Germany, Schwarzwald] "Todtmoos".

pallidipes GOETGHEBUER, 1942: *Bulletin du Musée Royal d'Histoire Naturelle de Belgique* **18**(46): 12 (*Psectrocladius*). Type-locality: "Belgique : La Panne" [Belgique = Belgium].

paludicola KIEFFER, 1925: *Beiträge zur Kunde Estlands* **10**: 160 (*Psectrocladius*). Type-locality: [Russia, near Kaliningrad] "Ostpreußen: Zehlau-Hochmoor, am Rande

der Inselblänke" [= East Prussia: Zehlau high moor, on the edge of Inselblänke]. [**Note**]

pilimanus GOETGHEBUER, 1934: *Bulletin et Annales de la Société Entomologique de Belgique* **74**(8): 294 (*Psectrocladius*). Type-locality: "dans les dunes de La Panne (Belgique)" [= in the dunes of La Panne (Belgium)].

polychaetus KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 121 (*Psectrocladius*). Type-locality: [Turkey] "Asia-Mineure: Angora" [= Asia Minor: Ankara].

septentrionalis CHERNOVSKII, 1949: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 114 (*Psectrocladius*). Type-locality: [Russia, Northern European Territory] **v severnykh ozerakh Evropeiskoi chasti SSSR** [= in northern lakes of the European part of the SSSR].

silesiacus KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 101 (*Psectrocladius*). Type-locality: [Poland] "Silésie" [= Silesia].

skwarrai KIEFFER, 1927: *Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Tartu* **33**: 66 (*Psectrocladius*; as "*Skwarrai*"). Type-locality: {Estlands} "Päsküllа-Moor bei Nömme — Zwischenmoor, Randzone" [= Päsküllа-Moor near Nömme — transitional moor, marginal zone] [Estlands = Estonia]

sphagnicola KIEFFER, 1925: *Beiträge zur Kunde Estlands* **10**: 160 (*Psectrocladius*). Type-locality: "Estland: Alatu-Moor auf Dagö" [= Estonia: Alatu-Moor on Dagö]. [**Note**]

brachytoma KIEFFER, 1927: *Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Tartu* **33**: 66 (*Psectrocladius*; as var. of *sphagnicola* Kieffer, 1925). Type-locality: "Estland : Päsküllа-Moor bei Nömme . . . Zwischenmoor" [= Estonia : Päsküllа-Moor near Nömme — transitional moor]; "Päsküllа-Moor bei Nömme, Randzone, von *Eriophorum*" [= Päsküllа-Moor near Nömme, marginal zone, on *Eriophorum*]. [**Note**]

sphagnorum KIEFFER, 1927: *Sitzungsberichte der Naturforscher-Gesellschaft bei der*

Universität Tartu **33**: 66 (*Psectrocladius*). Type-locality: "Estonia . . . Päsküllamoor bei Nömme, Zwischenmoor, Randzone" [= Estonia : Päsküllamoor near Nömme transitional moor, marginal zone].

spinulosus KIEFFER, 1929: *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg* **66**: 306 (*Psectrocladius*). Type-locality: [Russia, Kaliningrad Region] "Ostpreußen, Schwentlunder Hochmoor bei Cranz" [= East Prussia, Schwentlunder high moor near Cranz (now Zelenogradsk)].

tridentatus KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 17 (*Psectrocladius*). Type-localities: [Russia] {Nouvelle-Zemble} "Mashigin Rivage au sud de l'Ile Blaafjell, Mashigin Fjord" [= Mashigin shore south of Blaafjell Island, Mashigin Fjord]; "Côte nord-ouest de la Baie Arkhangel" [= north-west coast of Arkhangel Bay].

tunisiae KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 75 (*Psectrocladius*; as "*Tunisiae*"). Type-locality [Tunisia] "Tunis".

turficola KIEFFER, 1929: *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg* **66**: 308 (*Psectrocladius*). Type-locality: [Russia, Kaliningrad Region] "Zehlau-Hochmoor, Inselblänkwäldchen" [error, Inselblänkwäldchen = Inselblänkenwäldchen] [= Zehlau high moor, Inselblänken small woodland].

unifilis KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 60 (*Psectrocladius*). Type-locality: [Czech Republic] "Bohême" [= Bohemia].

versicolor KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 120 (*Psectrocladius*). Type-locality: [Turkey] "Asia-Mineure: Dinek" [= Asia Minor: Dinek].

vicinus KIEFFER, 1921: *Archiv für Hydrobiologie Supplement* **2**(4): 798 (*Psectrocladius*). Type-locality: [Germany, Westphalia] "Sauerland: Glörsperre" [= Sauerland: Glör Dam].

villosicornis KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 100 (*Psectrocladius*). Type-locality: [Poland] "Silésie" [= Silesia].

zavreli LIPINA, 1949: *Trudy Zoologicheskogo Instituta, Leningrad* **7**: 199 (*Psectrocladius*).

Type-localities: [Russia, West Siberia] **bliz ust'ya r. Korby** [= near the mouth of the River Korby]; **V r. Bii** [= in the River Bii].

zelinskii LIPINA, 1939: *Trudy Laboratorii Sapropelevykh Otlozhenii Akademii Nauk SSSR* **1**: 93 (*Psectrocladius*). Type-locality: [Russia, Central European Territory] **v oz. Belom** [= in Beloye Lake].

Genus **PSEUDORTHOCLADIUS** GOETGHEBUER

PSEUDORTHOCLADIUS GOETGHEBUER in GOETGHEBUER & LENZ, 1943: *Die Fliegen der Palaearktischen Region* **13g**: 73 (as subgenus of *Orthocladius* Wulp, 1874). Type-species: *Psectrocladius curtistylus* Goetghebuer, 1921, by original designation. The names *Pseudorthocladius* Goetghebuer, 1943, and *Psectrocladius curtistylus* Goetghebuer, 1921, are respectively placed on the Official List of Generic Names in Zoology and the Official List of Specifie Names in Zoology by Opinion 2179 of the International Commission on Zoological Nomenclature (2007: *Bulletin of Zoological Nomenclature* **64**(3): 198).

PSEUDORTHOCLADIUS GOETGHEBUER, 1932: *Faune de France* **23**: 93 (as subgenus of *Orthocladius* Wulp, 1874). Type-species: Not given. Name not made available - not accompanied by fixation of a type-species contrary to Article 13.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

PSEUDOKIEFFERIELLA LAURENCE, 1951: *Entomologist's Monthly Magazine* **86**: 165 (as subgenus of *Hydrobaenus* Fries, 1830). Type-species: *Psectrocladius curtistylus* Goetghebuer, 1921, by original designation. **Preoccupied**. Junior homonym of *Pseudokiefferiella* Zavřel, 1941 – the latter is a valid genus in the Subfamily Diamesinae).

LORDELLA SÆTHER & SUBLETTE, 1983: see below as subgenus.

PSEUDORTHOCLADIUS GOETGHEBUER, 1943: see below as subgenus.

Subgenus **LORDELLA** SÆTHER & SUBLETTE

LORDELLA SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**:

95. Type-species: *Pseudorthocladius* (*Lordella*) *comans* Sæther & Sublette, 1983 [= *Pseudorthocladius* (*Lordella*) *wingoi* Sæther & Sublette, 1983], by original designation.

wingoi SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 97 (*Pseudorthocladius* (*Lordella*)). Type-locality: "U.S.A. . . . Lake Norman. Macon Co., North Carolina". — Distr.: **NE**: Canada (Nova Scotia), U.S.A. (Ohio, North Carolina, South Carolina).

comans SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 95 (*Pseudorthocladius* (*Lordella*)). Type-locality: "U.S.A. . . . Laurel Fork Creek, 5 miles north of Jocassee Dam, Oconee Co., South Carolina".

Subgenus **PSEUDORTHOCLADIUS** GOETGHEBUER

akagitertius (KIKUCHI & SASA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 115 (*Hydrobaenus*). Type-locality: {Japan} [p. 112] "at the side of a fountain stream on the slope of Mount Akagi (Gunma)". — Distr.: **PA**: Japan.

albiventris (GOETGHEBUER, 1938): *Bulletin et Annales de la Société Entomologique de Belgique* **78**(11): 453 (*Orthocladius* (*Pseudorthocladius*)). Type-locality: "dans le Tyrol autrichien" [= in the Austrian Tyrol]. — Distr.: **PA**: Austria, Slovakia.

amamikonaseus (SASA & SUZUKI, 1993): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1993**: 115 (*Psectrocladius* (*Monopsectrocladius*)). Type-locality: [Abstract, p. 110] "Amami-Oshima Island, southern Japan"; [p. 115] "at (P), Konase, Setouchi-cho". — Distr.: **OR**: Japan (Ryukyu Archipelago).

amplicaudus SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 56 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . Upper Three Runs Creek, Savannah River Plant, Aiken Co., S.C." [S.C. = South Carolina]. — Distr.: **NE**: U.S.A. (South Carolina).

barbatus MAKARCHENKO & MAKARCHENKO, 2006: *Russian Entomological Journal*

15(1): 75 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: {Russian Far East} "Matrosskaya River in environs of Severo-Kurilsk Village, Paramushir Island (Kurile Islands)". — Distr.: **PA**: Russia (Far East).

bernadetti LEHMANN, 1979: *Spixiana Supplement* **3**: 44 (*Pseudorthocladius*). Type-locality: [Democratic Republic of the Congo] "Kalengo, Kivu-Gebiet, Zaire" [Gebiet = region]. — Distr.: **AF**: D.R.Congo. [**Note**]

berthelemyi MOUBAYED, 1990: *Bulletin de la Société d'Histoire Naturelle de Toulouse et de Midi-Pyrénées* **125**: 87 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: [France] "rivière le Lys, affluent de la Pique, Pyrénées centrales, rhithral rapide et froid, alt. 950 m" [= the Lys River, tributary of the Pique, central Pyrenees, fast and cold rhithral, altitude 950 metres]. — Distr.: **PA**: Austria, Bulgaria, Corsica, France, Germany, Morocco, Portugal, Slovakia, Spain, Turkey. [**Note**]

barthelemyi: incorrect subsequent spelling.

clavatosus SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 58 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . seep-start of 1st order stream, Issaqueena Forest, Clemson Univ., Pickens Co., South Carolina". — Distr.: **NE**: U.S.A. (Florida, Georgia, South Carolina).

cristagus STUR & SÆTHER, 2004: *Aquatic Insects* **26**(2): 80 (*Pseudorthocladius*). Type-locality: "Luxemburg, Oesling, east Holzthum, Bleesquelle, . . . at 505 m elevation" [Luxemburg = Luxembourg]. — Distr.: **PA**: Luxembourg.

cristatus MAKARCHENKO & MAKARCHENKO, 2012: *Evraziatskii Entomologicheskii Zhurnal* **11**(1): 76 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: **Rossiya: Khabarovskii krai, Komsomol'skii r-n, bezymyannyi ruchei bass. r. Amur** [= Russia: Khabarovsk Krai, Komsomol'sk District, anonymous stream in the basin of the River Amur]. — Distr.: **PA**: Russia (Far East).

curticornus SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 74 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . seep-small stream Rt. 441, 12.5 miles southeast of Gatlinburg, Tennessee".— Distr.: **NE**:

U.S.A. (South Carolina, Tennessee).

curtistylus (GOETGHEBUER, 1921): *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 101 (*Psectrocladius*) Type-locality: {Belgique} [p. 28] "à Heusden"; [p. 190] "Les Flandres", [Belgique = Belgium]. — Distr.: **NE**: Canada (Nova Scotia, Ontario), U.S.A. (Ohio); **PA**: Austria, Azores, Belgium, Canary Islands, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Kaliningrad, Lebanon, Luxembourg, Madeira, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia (NET, Far East), Slovakia, Spain, Sweden, Switzerland, Turkey; **OR**: China (Fujian).

curtistylatus: incorrect subsequent spelling.

destitutus SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 54 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . Edisto River, Orangeburg Co., South Carolina". — Distr.: **NE**: Canada (New Brunswick, Nova Scotia, Ontario), U.S.A. (Florida, Ohio, South Carolina).

dumicaudus SÆTHER, 1969: *Bulletin of the Fisheries Research Board of Canada* **170**: 126 (*Pseudorthocladius*). Type-locality: [Canada] "at hut, Marion Lake, University of British Columbia Forestry Farm, Haney, B.C." [B.C. = British Columbia]. — Distr.: **NE**: Canada (British Columbia), U.S.A. (California, South Carolina).

filiformis (KIEFFER in KIEFFER & THIENEMANN, 1908): *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 10 (*Psectrocladius*). Type-locality: Not given ‖ ►Type-locality: [France] "Lothringen, Bitsch" [= Lorraine, Bitche] in Kieffer in Kieffer & Thienemann, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 33◄‖. Senior primary homonym of *Psectrocladius filiformis* Kieffer, 1908 (below). — Distr.: **PA**: Austria, Balearic Islands, Denmark, Finland, France, Germany, Great Britain, Ireland, Luxembourg, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden.

filiformis (KIEFFER in KIEFFER & THIENEMANN, 1908): *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 33 (*Psectrocladius*). Type-locality:

[France] "Lothringen, Bitsch" [= Lorraine, Bitche]. **Preoccupied**. Junior primary homonym of *Psectrocladius filiformis* Kieffer, 1908 (above).

? *turfaceus* (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 60 (*Psectrocladius*). Type-locality: [Poland] "Silésie : tourbières des Hauts-Plateaux" [= Silesia : Highland moor] and [Introduction, p. 11] "sur un haut plateau tourbeux, nommé Seefelder" [= on a highland moor, named Seefelder]. **Questionable synonym.**

fujigaprimus (SASA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 35 (*Psectrocladius*). Type-locality: {Japan} [p. 35] "on the shore of Lake Fujigaike (Toyama)". — Distr.: **PA**: Japan.

fujioctavus SASA, 1985: *Research Report from the National Institute for Environmental Studies* **83**: 127 (*Pseudorthocladius*). Type-locality: {Japan, Mount Fuji area} "on the shore of Lake Yamanaka". — Distr.: **PA**: Japan.

fujiquintus (SASA, 1985): *Research Report from the National Institute for Environmental Studies* **83**: 125 (*Orthosmittia*). Type-locality: {Japan, Mount Fuji area} "on the shore of Lake Yamanaka". — Distr.: **PA**: Japan, Russia (Far East).

asamasextus (SASA & HIRABAYASHI, 1991): *Japanese Journal of Sanitary Zoology* **42**(2): 125 (*Toyamayusurika*). Type-locality: [Japan] [p. 117] "at Asama-Onsen, in the suburbs of Matsumoto City, Nagano Prefecture"; [p. 125] "on a street of Asama-Onsen".

tusimuabea (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(2): 102 (*Toyamayusurika*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 103] "Kubokawa".

furudodecimus (SASA & ARAKAWA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 99 (*Paratrissocladius*). Type-locality: [Japan] [Introduction, p. 88] "Furudo . . . a man-made lake constructed in a hilly area of Ikeda, southern part of Toyama-shi". — Distr.: **PA**: Japan.

ikilemeus (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(3): 159 (*Limnophyes*). Type-locality: [Title, p. 143] "Western Japan. . . . Iki Island"; [p. 159] "Touda Dam".

— Distr.: **PA**: Japan.

insularis MAKARCHENKO & MAKARCHENKO, 2012: *Evraziatskii Entomologicheskii Zhurnal* **11**(1): 78 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: **Rossiya: ostrov Sakhalin, zal. Mordvinova, oz. Svobodinskoe** [= Russia: island of Sakhalin, Mordvinova Bay, Lake Svobodinsk]. — Distr.: **PA**: Russia (Far East).

isigafegeus (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(1): 8 (*Limnophyes*). Type-locality: {Japan} [p. 4] "Ishigaki Island"; [p. 8] "at the side of Nakura River". — Distr.: **OR**: Japan (Ryukyu Archipelago).

jintusexdecima (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 67 (*Eukiefferiella*). Type-locality: [Japan] [p. 61, Introduction] "in Toyama Prefecture along the main stream of Jinzu River and its tributaries"; [p. 67] "at St. 8, Junzu-ohashi". — Distr.: **PA**: Japan.

jintutridecima (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 64 (*Eukiefferiella*). Type-locality: [Japan] [p. 61, Introduction] "in Toyama Prefecture along the main stream of Jinzu River and its tributaries"; [p. 64] "at Station 7, Arisawa Bridge". — Distr.: **PA**: Japan.

kurobesugoidus (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 53 (*Psectrocladius*). Type-locality: [Japan] [p. 41] "Kurobe River Basin", [p. 53] "Nekomata". — Distr.: **PA**: Japan.

yakuresea (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(2): 75 (*Eukiefferiella*). Type-locality: {Yakushima Island, Southwestern Japan} "Yakusugi Land".

labayi MAKARCHENKO & MAKARCHENKO, 2012: *Evraziatskii Entomologicheskii Zhurnal* **11**(1): 78 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: **Rossiya: o-v Sakhalin, plato Spamberga, oz. Peschanoe** [= Russia: island of Sakhalin, Spamberga Plateau, Lake Peschanoe]. — Distr.: **PA**: Russia (Far

East).

lunatus SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 63 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . south branch, Au Sable River, Crawford Co., Mich." [Mich. = Michigan]. — Distr.: **NE**: U.S.A. (Michigan).

macrostomus SOPONIS, 1981: *Florida Entomologist* **63**(4): 486 (*Pseudorthocladius*). Type-locality: [U.S.A.] "Florida, Liberty County, Apalachicola River, at Highway 20, Bristol". — Distr.: **NE**: U.S.A. (Florida). [**Note**]

macrovirgatus SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 87 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . seep, Isaqueena Forest, Clemson Univ., Pickens Co., South Carolina" [Isaqueena = Issaqueena]. — Distr.: **NE**: U.S.A. (Georgia, North Carolina, South Carolina, Tennessee); **PA**: France, Great Britain, Ireland, Netherlands, Norway.

cranstoni SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 92 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "peat pool, 600'/180 m. o.d., Loch Nakirka, Kerry, Eire" [Eire = Ireland].

matusecundus SASA & KAWAI, 1987: *Bulletin of the Toyama Science Museum* **10**: 52 (*Pseudorthocladius*). Type-locality: {Japan, Stream Itachigawa, Toyama} [p. 26] "Stream Matsukawa (Stations A to J)"; [p. 52]"at D" [= Station D]. — Distr.: **PA**: Japan.

mongolyezeus SASA & SUZUKI, 1997: *Japanese Journal of Tropical Medicine and Hygiene* **25**(4): 183 (*Pseudorthocladius*). Type-locality: {Mongolia} "River Orkhon". — Distr.: **PA**: Mongolia.

mongolzebea (SASA & SUZUKI, 1997): *Japanese Journal of Tropical Medicine and Hygiene* **25**(4): 185 (*Pseudosmittia*). Type-locality: {Mongolia} "Karakorum". — Distr.: **PA**: Mongolia.

morsei SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 85 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . Mill Creek, Savannah River Plant, Aiken Co., South Carolina". — Distr.: **NE**:

Canada (New Brunswick, Québec), U.S.A. (Georgia, North Carolina, Ohio, South Carolina).

multisetus MAKARCHENKO & MAKARCHENKO, 2012: *Evraziatskii Entomologicheskii Zhurnal* **11**(1): 80 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: **Rossiya: Khabarovskii kr. Komsomol'skii r-n, bezymyannyi ruchei bass. r. Amur** [=Russia: Khabarovsk Krai Komsomol'sk District, anonymous stream in the basin of the River Amur]. — Distr.: **PA**: Russia (Far East).

oyabecrassus SASA, KAWAI & UENO, 1988: *Research Report Toyama Prefectural Environmental Pollution Research Center* **1988**: 55 (*Pseudorthocladius*). Type-locality: [Summary, p. 27] "Oyabe River Basin, western Toyama Prefecture . . . Japan"; [p. 55] "at C-4, Futomibashi". — Distr.: **PA**: Japan.

togakileus (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 150 (*Parakiefferiella*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 150] "at Momose".

togakileus (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120 (*Parakiefferiella*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

paravirgatus SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 84 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . seep-start of 1st order stream, Issaqueena Forest, Clemson Univ., Pickens Co., South Carolina". — Distr.: **NE**: U.S.A. (South Carolina).

pilosipennis BRUNDIN, 1956: *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 139 (*Pseudorthocladius*). Type-locality: "Schweden: . . . Jämtland, . . . am Moorkolk Ö. Vontjärn" [= Sweden: . . . Jämtland, . . . at a bog pond east of Vontjärn]. — Distr.: **NE**: Canada (Ontario); **PA**: Denmark,

Finland, Germany, Great Britain, Japan, Lebanon, Luxembourg, Norway, Russia (NET), Sweden.

togamirus (SASA, WATANABE & ARAWAKA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 232 (*Metriocnemus*). Type-locality: [Japan] [Summary, p. 231] "at the side of a highland swamp of Yachidani, Togamura".

toyamaveweus (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 42 (*Metriocnemus*). Type-locality: [Introduction, p. 16] "Japan . . . in the zoological garden called Toyama City Family Park on the foot of Kureha Hill"; [p. 17] "at the side of the ground pool "A." " [= Lake A, p. 16].

prolixistylus BHATTACHARYAY & CHAUDHURI, 1990: *Revista Brasileira de Entomologia* **34**(2): 332 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "India, West Bengal, Darjeeling". — Distr.: **OR**: India (West Bengal).

rectangilobus CASPERS & SIEBERT, 1980: *Mitteilungen der Schweizerischen Entomologischen Gesellschaft* **53**(2/3): 181 (*Pseudorthocladius*). Type-locality: {Germany} "am Herchenbach, 1km südlich von Morscheid-Riedenburg (Hünsruck, MTB 6208)" [= on the Herchenbach, 1 kilometre south of Morscheid-Riedenburg (Hünsruck, MTB 6208)]. — Distr.: **NE**: U.S.A. (Alabama, North Carolina, Ohio, South Carolina, Tennessee); **PA**: Germany, Ireland, Norway.

rectilobus SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 58 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . West Fork Chattooga River, Rabun Co., Georgia". — Distr.: **NE**: Canada (New Brunswick, Nova Scotia, Ontario), U.S.A. (Georgia, South Carolina, Tennessee); **PA**: Russia (Far East).

virgatus SÆTHER & SUBLETTE. 1983: *Entomologica Scandinavica Supplement* **20**: 81 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . Savannah River, Highway 29 Bridge, South Carolina".

retusus BHATTACHARYAY & CHAUDHURI, 1990: *Revista Brasileira de Entomologia* **34**(2): 333 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: {India} "Sikkim, Gangtok". — Distr.: **OR**: India (Sikkim).

similis FREEMAN, 1953: *Proceedings of the Royal Entomological Society* (B) **22**(7/8): 134 (*Pseudorthocladius*). Type-locality: [South Africa] "Berg River". — Distr.: **AF**: D.R.Congo, Senegal, South Africa.

tairasecundus SASA & OKAZAWA, 1994: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 74 (*Pseudorthocladius*). Type-locality: [Japan] "at Taira (Toyama)". — Distr.: **PA**: Japan.

togakuroidus (SASA, WATANABE & ARAKAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 231 (*Trissocladius*). Type-locality: [Japan] [Summary, p. 231] "at the side of a highland swamp of Yachidani, Togamura". — Distr.: **PA**: Japan.

tricanthus SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 67 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . seep-small stream, Issaqueena Forest, Clemson Univ., Pickens Co., S.C." [S.C. = South Carolina]. — Distr.: **NE**: Canada (New Brunswick), U.S.A. (Florida, North Carolina, South Carolina).

tsubakuroensis (SASA & OKAZAWA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 79 (*Psectrocladius*; [p. 79] as "*tubakuroensis*", [p. 87] as "*tsubakuroensis*"). Type-locality: [Japan] "at an altitude of 2,650 meters on the slope of Mount Tsubakuro, Japan Alps". — Distr.: **PA**: Japan. [**Note**]

tubakuroensis: incorrect original spelling.

tusimoquereus (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(2): 93 (*Psectrocladius* (*Monopsectrocladius*)). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]. — Distr.: **PA**: Japan.

uniserratus SÆTHER & SUBLETTE, 1983: *Entomologica Scandinavica Supplement* **20**: 72 (*Pseudorthocladius* (*Pseudorthocladius*)). Type-locality: "U.S.A. . . . at seep-

small stream, Rt. 441 12.5 miles southeast of Gatlinburg, Tennessee". — Distr.: **NE**: Canada (British Columbia, Ontario), U.S.A. (California, Florida, New Mexico, Ohio, South Carolina, Tennessee).

yakuveweus (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(2): 78 (*Psectrocladius* (*Monopsectrocladius*)). Type-locality: {Yakushima Island, Southwestern Japan} "Takenokawa". — Distr.: **PA**: Japan.

yakuwexeus (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(2): 78 (*Psectrocladius* (*Monopsectrocladius*)). Type-locality: {Yakushima Island, Southwestern Japan} "Issogawa River". — Distr.: **PA**: Japan.

yakuxeyeus (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(2): 79 (*Psectrocladius* (*Monopsectrocladius*)). Type-localities: {Yakushima Island, Southwestern Japan} "Yakusugi Land"; "Anbou River"; "Shirotani River". — Distr.: **PA**: Japan.

Nomina dubia in PSEUDORTHOCLADIUS

imperfectus (GOETGHEBUER, 1944): *Biologisch Jaarboek* **11**: 43 (*Orthocladius* (*Pseudorthocladius*)). Type-locality: "Belgique : bois de Schelderode-lez-Gand" [= Belgium : forest of Schelderode-lez-Gand].

Genus **PSEUDOSMITTIA** EDWARDS

PSEUDOSMITTIA EDWARDS, 1932: *Entomologist* **65**: 141 (as subgenus of *Smittia* Holmgren, 1869). Type-species: *Spaniotoma* (*Smittia*) *angusta* Edwards, 1929, by original designation. [**Note**]

PSEUDOSMITTIA GOETGHEBUER, 1932: *Faune de France* **23**: 126 (as subgenus of *Smittia* Holmgren, 1869). Type-species: Not given. Name not made available - not accompanied by fixation of a type-species contrary to Article 13.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

ORTHOSMITTIA GOETGHEBUER in GOETGHEBUER & LENZ, 1943: *Die Fliegen der Palaearktischen Region* **13g**: 110 (as subgenus of *Smittia* Holmgren, 1869). Type-

species: *Orthocladius* (*Dactylocladius*) *brevifurcatus* Edwards, 1926, by original designation. Synonymized with *Pseudosmittia* Edwards, 1932, by Sæther (2006: *Zootaxa* **1198**: 24).

ANCYLOCLADIUS SUBLETTE & WIRTH, 1972: *Florida Entomologist* **55**(1): 5. Type-species: *Ancylocladius relicinus* Sublette & Wirth, 1972, by original designation. Synonymized with *Pseudosmittia* Edwards, 1932, by Andersen, Sæther & Mendes (2010: *Zootaxa* **2472**: 23).

NIKISMITTIA SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Science Research Center* **1996** (**March**): 106 (as subgenus of *Pseudosmittia* Edwards, 1932). Type-species: Not given. Name not made available - not accompanied by fixation of a type-species contrary to Article 13.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**. Synonymized with *Pseudosmittia* Edwards, 1932, by Sæther (2006: *Zootaxa* **1198**: 24). [**Note**]

aculeathrix FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 259 (*Pseudosmittia*). Type-locality: "USA: New York, South Dayton". — Distr.: **NE**: U.S.A. (New York).

acutilobata FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 291 (*Pseudosmittia*). Type-locality: "CANADA: Manitoba, Delta Marsh". — Distr.: **NE**: Canada (Manitoba, Ontario).

adunca ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 26 (*Pseudosmittia*). Type-locality: "BRAZIL: Santa Catarina State, Jaraguá do Sul". — Distr.: **NT**: Brazil.

albipennis (GOETGHEBUER, 1921): *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 86 (*Dactylocladius*): Type-localities: {Belgique} [p. 22] "Sur les troncs d'arbres bordant les fossés, dans les bois. Eecloo, Bellem " [= On the trunks of trees bordering ditches, in the woods. Eecloo, Bellem]; [p. 189] "Les Flandres" [Belgique = Belgium]. — Distr.: **PA**: Belgium, Denmark, Finland, France, Germany, Great Britain, Ireland, Lebanon, Luxembourg, Netherlands, Switzerland. [**Note**]

curticosta (EDWARDS, 1929): *Transactions of the Entomological Society of London*

77: 364 (*Spaniotoma* (*Smittia*)). Type-localities: [Great Britain] "Llyn Gwynant, Carnarvon"; "Corriegills, Arran".

amorimi ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 28 (*Pseudosmittia*). Type-locality: "BRAZIL: Paraná State, Parque Estadual do Pau Oco, Morretes, 25°34'27.9"S, 48°53'46.7"W". — Distr.: **NT**: Brazil.

angusta (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 364 (*Spaniotoma* (*Smittia*)). Type-localities: [Great Britain] "Llyn Gwynant, Carnarvon"; "Harrow Weald, Middlesex"; "Skipwith, Yorks." [Yorks. = Yorkshire]; "Knebworth, Herts." [Herts. = Hertfordshire]. — Distr.: **NE**: Canada (Ontario), U.S.A. (New Hampshire); **PA**: Finland, France, Great Britain, Ireland, Italy, Netherlands, Romania, Russia (CET, NET, Far East), Sweden, Switzerland.

baueri STRENZKE, 1960: *Deutsche Entomologische Zeitschrift* (Neue Folge) **7**(4/5): 420 (*Pseudosmittia*). Type-locality: [Germany] "vom Ufer des Zwischenhafens, Wilhelmshaven" [= from the shores of the Intermediate Port, Wilhelmshaven]. — Distr.: **PA**: France, Germany, Great Britain, Netherlands, Spain.

bicinctura (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 533 (*Smittia*). Type-locality: [Belau] "SW. Koror I., Palau, 25 m". — Distr.: **AU**: Belau.

bifurcata (TOKUNAGA, 1936): *Philippine Journal of Science* **60**(3): 310 (*Spaniotoma* (*Smittia*)). Type-locality: "Japan . . . Masaki, Mie Prefecture". — Distr.: **PA**: Japan; **OC**: Bonin Islands, Kiribati.

ogasatridecima SASA & SUZUKI, 1997: *Medical Entomology and Zoology* **48**(4): 335 (*Pseudosmittia*). Type-locality: {Japan, Ogasawara Islands} "Chibusa Dam, Hahajima".

brachydicrana (EDWARDS, 1927): *Annals and Magazine of Natural History* (9) **20**: 243 (*Orthocladius*). Type-locality: [French Polynesia] "SOCIETY Is. : Tahiti, Papenoo, . . . on coast-hills, 1000 ft" [Lectotype designation in Andersen, Sæther & Mendes, 2010: *Zootaxa* 2472: 31, ":TAHITI: Papenoo"]. — Distr.: **NT**: Jamaica; **AF**: Chagos Archipelago (Diego Garcia); **AU**: Belau; **OC**:

Federated States of Micronesia, Kiribati, French Polynesia (Society Islands), Hawaiian Islands (Hawaii Island, Oahu Island), Marshall Islands. [**Note**]

wirthi (HARDY, 1960): *Insects of Hawaii* **10**: 145 (*Orthocladius* (*Smittia*)). Type-locality: {Hawaiian Islands} "Kalihi, Oahu".

micronesiana (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 526 (*Smittia*). Type-locality: [Federated States of Micronesia] "Wena (Moen) I., Truk". [**Note**]

micronesia: incorrect subsequent spelling.

relicinus (SUBLETTE & WIRTH, 1972): *Florida Entomologist* **55**(1): 5 (*Ancylocladius*). Type-locality: "Runaway Bay, Jamaica".

brevifurcata (EDWARDS, 1926): *Proceedings of the Zoological Society of London* **51**: 781 (*Orthocladius* (*Dactylocladius*)). Type-locality: [Great Britain] "Swanage, Dorset" [Lectotype designation in Ferrington & Sæther, 2011: *Zootaxa* **2849**: 248, [Great Britain] "ENGLAND: Dorset, Swanage"]. — Distr.: **PA**: Azores, France, Great Britain, Ireland, Netherlands, Slovenia, Spain.

cambuciensis ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 32 (*Pseudosmittia*). Type-locality: "BRAZIL: São Paulo State, Cubatão, Cambuci". — Distr.: **NT**: Brazil.

capicola FREEMAN, 1953: *Proceedings of the Royal Entomological Society* (B) **22**(11/12): 208 (*Pseudosmittia*). Type-locality: [South Africa] "Berg River, French Hoek Forest Reserve". — Distr.: **AF**: South Africa.

carioca ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 34 (*Pseudosmittia*). Type-locality: "BRAZIL: Rio de Janeiro State, Reserva Biológica Tinguá, Nova Iguaçu, 22°34'28"S, 43°26'09"W". — Distr.: **NT**: Brazil.

carita FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 246 (*Pseudosmittia*). Type-locality: "SPAIN: El Rocio". — Distr.: **PA**: Spain.

catarinense ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 36 (*Pseudosmittia*). Type-locality: "BRAZIL: Santa Catarina State, Urubici, Morro da Igreja, 1.822 m a.s.l.". — Distr.: **NT**: Brazil.

christmasensis FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 203 (*Pseudosmittia*). Type-locality: "KIRIBATI: Kiritinati (Christmas Island), Dolly's Beach, 10.31° S, 105.33° W". — Distr.: **OC**: Kiribati.

conjuncta (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 365 (*Spaniotoma* (*Smittia*)). Type-locality: [Great Britain] "Epping Forest (Wake Valley Pond)". — Distr.: **PA**: Belgium, Great Britain, Netherlands.

brachyptera (GOETGHEBUER, 1934): *Bulletin et Annales de la Société Entomologique de Belgique* **74**(12): 389 (*Smittia*). Type-locality: [Belgium] "à Chaudfontaine".

cristagata FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 185 (*Pseudosmittia*). Type-locality: "CHINA: Guangdong, Fenghai". — Distr.: **NE**: U.S.A. (California); **OR**: China (Guangdong).

cunealata FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 241 (*Pseudosmittia*). Type-locality: "TANZANIA: Tanga, West Usambara Mountains, Mazumbai". — Distr.: **AF**: Tanzania.

danconai (MARCUZZI, 1947): *Bollettino della Societa Entomologica Italiana* **77**(1/2): 12 (*Smittia*; as "*D' Anconai*"). Type-locality: [Italy] "Venezia, Cavallino, fossi che costeggiano la strada che va a Punta Sabbioni, con acqua decisamente salmastra" [= Venice, Cavallino, ditches lining the road that goes to Punta Sabbioni, with very salty water]. — Distr.: **NE**: U.S.A. (South Dakota); **PA**: Finland, France, Germany, Greece, Italy, Japan, Lebanon, Netherlands, Romania, Russia (NET, East Siberia, Far East), Spain, Syria, Turkey, United Arab Emirates; **AF**: South Africa, Zimbabwe.

hamata (FREEMAN, 1956): *Bulletin of the British Museum (Natural History)* Entomology **4**(7): 358 (*Smittia*). Type-locality: [South Africa] "TRANSVAAL: Kruger National Park, Skukuza, Sabie River". Senior secondary homonym of *Pseudosmittia hamata* Strenzke, 1960 (below).

hamata STRENZKE, 1960: *Deutsche Entomologische Zeitschrift* (Neue Folge) **7**(4/5): 433 (*Pseudosmittia*). Type-locality: [Germany] "am Rande eines

Entwässerungsgraben in der Umgebung von Bad Rappenau (Baden, Kr. Sinsheim)" [= on the edge of a drainage ditch near Bad Rappenau (Baden, Sinsheim Hospital)]. **Preoccupied**. Junior secondary homonym of *Pseudosmittia hamata* (Freeman, 1956) (above).

neohamata CRANSTON in ASHE & CRANSTON, 1990: *Catalogue of Palaearctic Diptera* **2**: 223 (*Pseudosmittia*; as nom. nov. for *Pseudosmittia hamata* Strenzke, 1960, nec *Smittia hamata* Freeman, 1956 when both in *Pseudosmittia* Edwards, 1932).

jintuvicesima SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 72 (*Pseudosmittia* (*Pseudosmittia*)). Type-locality: [Japan] [p. 61, Introduction] "in Toyama Prefecture along the main stream of Jinzu River and its tributaries"; [p. 72] "at St. 4" [= "St. 4 (Niita)" on p. 61].

seiryupequea SASA, SUZUKI & SAKAI, 1999: *Tropical Medicine* **40**(3): 117 (*Pseudosmittia*). Type-locality: [Abstract, p. 99] "Shimanto River, western Shikoku Island, Japan"; [p. 117] "Ekawasaki".

digitata SÆTHER, 1981: *Entomologica Scandinavica Supplement* **16**: 25 (*Pseudosmittia*). Type-locality: "lower slopes of mountain behind Castries, St. Lucia". — Distr.: **NT**: Brazil, St. Lucia; St. Vincent, Surinam; **NE**: Canada (Manitoba, Ontario, Prince Edward Island), U.S.A. (California, Florida, Georgia, Kansas, Michigan, Missouri, New Mexico, South Carolina, South Dakota).

digitrienta FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 272 (*Pseudosmittia*). Type-locality: "THAILAND: Mae Chaem District, Doi Inthanon". — Distr.: **OR**: Thailand.

dolobrata FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 294 (*Pseudosmittia*). Type-locality: "USA: Florida: Gadson County, Turkey Creek on 65 B near Rocky Comfort Creek". — Distr.: **NE**: U.S.A. (Florida, South Carolina).

dupla (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 522 (*Smittia*). Type-locality: "Ailinglapalap Islet, Ailinglapalap Atoll, Marshall Is.". — Distr.: **AU**: Belau;

OC: Marshall Islands. [**Note**]

duplicata CASPERS, 1990: *Entomofauna* **11**(12): 218 (*Pseudosmittia*). Type-locality: "Changshu (Provinz Jilin, China)" [error, Changshu = Changchun]. — Distr.: **PA**: China (Jilin). [**Note**]

forcipata (GOETGHEBUER, 1921): *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 87 (*Camptocladius*). Type-localities: {Belgique} [p. 23] "Pris à Heusden" [= Caught in Heusden]; [p. 189] "Les Flandres", [Belgique = Belgium]. — Distr.: **NT**: Brazil, Colombia, Costa Rica, Ecuador, Guatemala, Mexico (Campeche), Peru, St. Vincent, Venezuela; **NE**: Canada (British Columbia, Manitoba, New Brunswick, Nova Scotia, Ontario), Mexico (Nuevo León), U.S.A. (Alabama, California, Colorado, Florida, Georgia, Kansas, Kentucky, Louisiana, New Mexico, North Carolina, Ohio, South Carolina, South Dakota, Tennessee, Vermont, Washington, Wisconsin, Wyoming); **PA**: Austria, Belgium, China (Jilin, Ningxia, Sichuan), Denmark, Finland, France, Germany, Great Britain, Japan, Mongolia, Netherlands, Norway, Russia (NET, Far East), Sweden, Switzerland, Turkey; **OR**: Thailand.

triappendiculata (GOETGHEBUER, 1932): *Bulletin et Annales de la Société Entomologique de Belgique* **71**(11): 217 (*Smittia*). Type-locality: "Belgique : Knocke-sur-mer, sur le pré-salé du Zwijn" [= Belgium : Knocke-sur-mer, on the salt-meadow of Zwijn. [**Note**]

antillaria SÆTHER, 1981: *Entomologica Scandinavica Supplement* **16**: 29 (*Pseudosmittia*). Type-locality: "442 m a.s.l., below waterfall, Majorca, Yambou River, St. Vincent".

mongolzeaea SASA & SUZUKI, 1997: *Japanese Journal of Tropical Medicine and Hygiene* **25**(4): 185 (*Pseudosmittia*). Type-locality: {Mongolia} "on Mount Bogdrhan, 2,400 m high from sea level" [Bogdrhan = Bogd Khan].

fusata FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 230 (*Pseudosmittia*). Type-locality: "SOUTH AFRICA: Natal, Howick, Karkloof Forest". — Distr.: **AF**: South Africa.

fusivenosa (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 534 (*Smittia*). Type-locality: [Federated States of Micronesia] "Tonoas I., Truk Is.". — Distr.: **AU**: Belau; **OC**: Federated States of Micronesia.

gibbistyla ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 41 (*Pseudosmittia*). Type-locality: "BRAZIL: Santa Catarina State, Urubici, Morro da Igreja, cloud forest, 1.822 m a.s.l.". — Distr.: **NT**: Brazil.

gracilis (GOETGHEBUER, 1913): *Annales de Biologie Lacustre* **6**(2/3): 164 (*Camptocladius*). Type-locality: {Belgique} "à Gand" [Belgique = Belgium]. — Distr.: **NE**: Canada (Northwest Territories); **PA**: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Italy, Japan, Moldova, Mongolia, Netherlands, Poland, Romania, Russia (CET, East Siberia), Spain, Turkey.

guineensis (KIEFFER, 1918): *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 81 (*Camptocladius*). Type-locality: [Guinea] "Guinée française: Mamon" [error, Mamon = Mamou]. — Distr.: **AF**: Cameroon, D.R.Congo, Ethiopia, Guinea, Tanzania; **OR**: China (Fujian, Guangxi, Guizhou), Indonesia (Sumatra).

longicosta (KIEFFER, 1923): *Annales de la Société Entomologique de France* **92**: 185 (*Camptocladius*). Type-locality: "Cameroun : Kribi" [Cameroun = Cameroon].

longicostalis (GOETGHEBUER, 1934): *Revue de Zoologie et de Botanique Africaines* **25**: 204 (*Smittia*). Type-locality: [Democratic Republic of the Congo] {Congo Belge} "à Kisantu".

tobaunvicesima KIKUCHI & SASA, 1990: *Japanese Journal of Sanitary Zoology* **41**(4): 325 (*Pseudosmittia*). Type-locality: {Sumatra, Indonesia} "at the side of Lake Toba". [**Note**]

tobaundecima: incorrect subsequent spelling

hirtella (FREEMAN, 1953): *Proceedings of the Royal Entomological Society* (B) **22**(11/12): 208 (*Orthosmittia*). Type-locality: [South Africa] "Zeekoe Vlei". — Distr.: **AF**: Madagascar, Malawi, South Africa, Zimbabwe.

holsata THIENEMANN & STRENZKE, 1940: *Zoologischer Anzeiger* **132**(9/10): 238 (*Pseudosmittia*). Type-locality: [Germany] "in den Moospolstern einer Mauer am Schwentine-Ausfluß des Gr. Plöner See bei Plön" [= in the moss cushion on a wall on the Schwentine outflow from the Grosser Plöner See near Plön]. — Distr.: **NE**: U.S.A. (Georgia, South Carolina); **PA**: Austria, China (Ningxia), France, Germany, Hungary, Italy, Japan, Netherlands, Romania, Russia (Far East), Spain, Sweden, Switzerland, Turkey.

hachijotertia SASA, 1994: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 48 (*Pseudosmittia*). Type-locality: {Japan} [p. 43] "on Hachijo, a volcanic island in the Pacific Ocean about 300 kilometers south of Tokyo"; [p. 47] "at "G", Tohmi Waterfall".

insulsa (JOHANNSEN, 1946): *Bernice P. Bishop Museum Bulletin* **189**: 191 (*Smittia* (*Pseudosmittia*)). Type-locality: {Guam} "Agana". — Distr.: **AU**: Belau; **OC**: Guam, Northern Marianas.

invirgata ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 43 (*Pseudosmittia*). Type-locality: "MEXICO: Campeche State, Calakmul Biosphere Reserve, Aguada pequeña, 1 km Northeast of Hormiguero, 18°24'10.9"N, 89°29'13.8"W, 300 m a.s.l.". — Distr.: **NT**: Mexico (Campeche).

joaquimvenancioi (MESSIAS & OLIVEIRA, 2000): *Late 20th Century Research on Chironomidae*: 189 (*Bryophaenocladius*). Type-locality: "Brazil, Estado do Rio de Janeiro, Rio de Janeiro, FIOCRUZ Campus". — Distr.: **NT**: Brazil, Costa Rica, Mexico (Campeche, Veracruz), Nicaragua, St. Lucia, St. Vincent, Venezuela.

kauaiensis (HARDY, 1960): *Insects of Hawaii* **10**: 139 (*Orthocladius* (*Smittia*)). Type-locality: {Hawaiian Islands} "Nawiliwili, Kawai". — Distr.: **OR**: Hawaiian Islands (Oahu Island).

kraussi (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 523 (*Smittia*). Type-locality: [Belau] "Koror I., Palau". — Distr.: **AU**: Belau; **OC**: Federated States of Micronesia.

lamasi ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 49 (*Pseudosmittia*). Type-locality: "BRAZIL: São Paulo State, Estação Ecológica Juréia-Itatins, Peruíbe, 24°31'06"S, 47°12'06"W". — Distr.: **NT**: Brazil.

lamellata ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 51 (*Pseudosmittia*). Type-locality: "BRAZIL: São Paulo State, Cananéia, restinga (GITA), 25°01'59"S, 44°47'7.9"W, 9 m a.s.l.". — Distr.: **NT**: Brazil.

laticauda FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 259 (*Pseudosmittia*). Type-locality: "USA: New York, Suffolk Co., Montauk Lake". — Distr.: **NE**: Canada (Prince Edward Island,), U.S.A. (New York).

legonensis FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 179 (*Pseudosmittia*). Type-locality: "GHANA: Accra, Legon, Botanical Garden". — Distr.: **AF**: Ghana.

licina FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 201 (*Pseudosmittia*). Type-locality: "KIRIBATI: Kiritinati (Christmas Island), Settlement, 10.25 °S 105.41 °E". — Distr.: **OC**: Kiribati.

littoralis (TOKUNAGA, 1936): *Philippine Journal of Science* **60**(3): 303 (*Spaniotoma* (*Smittia*)). Type-locality: "Japan . . . Seto, Wakayama Prefecture". — Distr.: **PA**: Japan.

longicornia FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 261 (*Pseudosmittia*). Type-locality: "CHINA: Ningxia, Mount Helan". — Distr.: **PA**: China (Ningxia).

macrobrachia (EDWARDS, 1928): *Insects of Samoa* **6**: 62 (*Orthocladius*). Type-locality: {Western Samoa} "Savaii: Safune". — Distr.: **OC**: Western Samoa. **[Note]** *macrobranchia*: incorrect subsequent spelling.

magdae ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 53 (*Pseudosmittia*). Type-locality: "BRAZIL: São Paulo State, Parque Estadual Intervales, gruta Paiva". — Distr.: **NT**: Brazil.

malickyi FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 175 (*Pseudosmittia*). Type-locality: "THAILAND: Mae Chaem District, Doi Inthanon". — Distr.: **OR**: Thailand.

mathildae ALBU, 1968: *Annales Zoologici Fennici* **5**: 4 (*Pseudosmittia*). Type-locality: "in

Caransebeş Banat region, Roumania, on the shore of the River Timiş" [Roumania = Romania]. — Distr.: **NE**: U.S.A. (Alabama, Georgia, South Carolina); **PA**: Austria, China (Gansu), Finland, Germany, Italy, Japan, Romania; Russia (NET, Far East); **OR**: China (Guangdong), Japan (Ryukyu Archipelago).

itachibifurca SASA & KAWAI, 1987: *Bulletin of the Toyama Science Museum* **10**: 54 (*Pseudosmittia*). Type-locality: {Japan, Stream Itachigawa, Toyama} [p. 26] "Stream Itachigawa (Stations No.1~No.10)"; [p. 54] "at No.2" [= Station No. 2].

amamibifurca SASA, 1990: *Japanese Journal of Experimental Medicine* **60**(3): 132 (*Pseudosmittia*). Type-locality: {Nansei Islands, southern Japan} "at the side of a mountain stream Yakkachi, Amami Island".

hibarabifurca SASA, 1993: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1993**: 80 (*Pseudosmittia*). Type-locality: {Japan} "on the shore of Lake Hibara".

furudobifurca SASA & ARAKAWA, 1994: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 100 (*Pseudosmittia*). Type-locality: [Japan] [Introduction, p. 88] "Furudo . . . a man-made lake constructed in a hilly area of Ikeda, southern part of Toyama-shi".

shofukuundecima SASA, 1998: *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 42 (*Pseudosmittia* (*Nikismittia*)). Type-locality: {Japan} [Abstract, p. 14] "in the Shofuku Garden, . . . about 1 km from the mouth of Kurobe River".

sasai (MAKARCHENKO & MAKARCHENKO, 2005): *Chteniya Pamyati Vladimira Yakovlevicha Levanidova* **3**: 376 (*Diplosmittia*). Type-locality: {Russian Far East, South part of Primorye Territory} **Khabarovskii kr., Evreiskaya avtonomnaya obl., r. Khingan v 2 km vyshe pos. Obluch′e** [= Khabarovsk Krai, Evreiskaya Autonomous Oblast, River Khingan about 2 km above the settlement of Obluch′e].

melanostola (KIEFFER, 1911): *Transactions of the Linnean Society of London (2nd Series, Zoology)* **14**: 362 (*Dactylocladius*). Type-locality: "Seychellen. Mahé: Cascade Estate" [Seychellen = Seychelles] [Lectotype designated in Sæther, 2004: *Annales de Limnologie* **40**(4): 296, "SEYCHELLES : Mahé, Cascade Estate"]. — Distr.: **AF**: Seychelles.

nana ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 55 (*Pseudosmittia*). Type-locality: "BRAZIL: Bahia State, Estação Ecológica Pau Brasil, Porto Seguro, 16°23'17.6"S, 39°10'55.6"W". — Distr.: **NT**: Brazil.

navama FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 281 (*Pseudosmittia*). Type-locality: "USA: California, Contra Costa County, Richmond, salt marsh". — Distr.: **NE**: U.S.A. (California, Oregon).

nishiharaensis SASA & HASEGAWA, 1988: *Japanese Journal of Sanitary Zoology* **39**(3): 247 (*Pseudosmittia*). Type-locality: {Ryukyu Islands, southern Japan} [p. 248] "Nishihara, Miyako Island". — Distr.: **PA**: China (Ningxia), Germany, Italy, Japan, Russia (Far East), Turkey; **OR**: Japan (Ryukyu Archipelago), Thailand.

linguata CASPERS & REISS, 1989: *Entomofauna* **10**(8): 128 (*Pseudosmittia*). Type-locality: "Azort-Pass W Oltu, 2200 m über NN (Provinz Erzurum, Osttürkei)" [=Azort Pass west of Oltu, 2200 metres above sea-level (Erzurum Province, eastern Turkey)].

yakymenea SASA & SUZUKI, 2000: *Tropical Medicine* **42**(2): 92 (*Pseudosmittia*). Type-locality: {Yakushima Island, Southwestern Japan} "Issogawa".

yakyneoa SASA & SUZUKI, 2000: *Tropical Medicine* **42**(2): 93 (*Pseudosmittia*). Type-locality: {Yakushima Island, Southwestern Japan} "Issogawa".

oahuensis (HARDY, 1960): *Insects of Hawaii* **10**: 141 (*Orthocladius* (*Smittia*)). Type-locality: {Hawaiian Islands} "Mt. Kaala, Oahu, . . . taken at summit in bog, 4, 000 ft.". — Distr.: **OC**: Hawaiian Islands (Oahu).

obtusa STRENZKE, 1960: *Deutsche Entomologische Zeitschrift* (Neue Folge) **7**(4/5): 439 (*Pseudosmittia*). Type-locality: [Germany] "Windgfällweiher im Schwarzwald (966 m ü. NN), und zwar vom Seeaussfluß, wo ein kleines Moor . . . den See

abschließt" [= Windgfäll pond in the Black Forest (966 metres above sea-level), namely from the outflow, where the pond ends in a small bog]. — Distr.: **PA**: Finland, Germany, Great Britain, Ireland, Netherlands, Norway.

palauensis (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 520 (*Smittia*). Type-locality: [Belau] "Angaur I., Palau". — Distr.: **AU**: Belau.

palpina ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 57 (*Pseudosmittia*). Type-locality: "BRAZIL: Bahia State, Estação Ecológica Pau Brasil, Porto Seguro, 16°23'17.6"S, 39°10'55.6"W, . . . 107 m a.s.l.". — Distr.: **NT**: Brazil.

paraconjuncta (HARDY, 1960): *Insects of Hawaii* **10**: 143 (*Orthocladius* (*Smittia*)). Type-locality: {Hawaiian Islands} "Mt. Kaala, Oahu, swept from grass in bog, 4, 000 ft.". — Distr.: **NE**: Canada (Ontario), U.S.A. (Georgia, South Carolina); **OC**: Hawaiian Islands (Oahu).

parifusata FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 230 (*Pseudosmittia*). Type-locality: "SOUTH AFRICA: Natal, Giants Castle Reserve, 1800 m a. s. l.". — Distr.: **AF**: South Africa.

parinavama FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 282 (*Pseudosmittia*). Type-locality: "USA: California, Point Lobos". — Distr.: **NE**: U.S.A. (California).

paulista ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 59 (*Pseudosmittia*). Type-locality: "BRAZIL: São Paulo State, Estação Ecológica Juréia-Itatins, Peruíbe, 24°31'06"S, 47°12'06"W". — Distr.: **NT**: Brazil.

pedata FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 290 (*Pseudosmittia*). Type-locality: "CANADA: New Brunswick, Kouchibougerae National Park". — Distr.: **NE**: Canada (New Brunswick).

pinhoi ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 61 (*Pseudosmittia*). Type-locality: "BRAZIL: Santa Catarina State, Urubici, Morro da Igreja, cloud forest, 1.822 m a.s.l.". — Distr.: **NT**: Brazil.

propetropis FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 252 (*Pseudosmittia*). Type-locality: "GHANA: Western Region, Ankasa Game Production Reserve". — Distr.: **AF**: Ghana.

pugnata FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 288 (*Pseudosmittia*). Type-locality: "USA: Kansas, Scott County, Big Springs near Scott County State Lake, 13.3 mi N., 0.6 mi W. of Scott City". — Distr.: **NE**: U.S.A. (Kansas).

remigula SÆTHER, 2004: *Annales de Limnologie* **40**(4): 299 (*Pseudosmittia*). Type-locality: "SEYCHELLES: Mahé, Marc aux Cochons". — Distr.: **AF**: Seychelles.

reyei (FREEMAN, 1961): *Australian Journal of Zoology* **9**(4): 671 (*Orthosmittia*). Type-locality: {Australia} "Woody I., Qld." [= Woody Island, Queensland]. — Distr.: **AU**: Australia (Queensland).

roquei ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 63 (*Pseudosmittia*). Type-locality: "BRAZIL: Minas Gerais State, Monte Verde, Camanducaia". — Distr.: **NT**: Brazil.

rostriformis MAKARCHENKO & MAKARCHENKO, 2006: *Russian Entomological Journal* **15**(1): 88 (*Pseudosmittia*). Type-locality: {Russia, Far East} **Primorskii kr., Terneiskii r-n, Sikhotz-Alinskii biosfernyi zapovednik, oz. Tret′e** [= Primorsky Krai, Terneisky District, Sikhotz-Alinskii Biosphere Nature Reserve, Lake Tret′e]. — Distr.: **PA**: Russia (Far East).

rotunda CASPERS & REISS, 1989: *Entomofauna* **10**(8): 126 (*Pseudosmittia*). Type-locality: "Aras-Tal W Karakurt, 1300 m über NN (Provinz Kars, Osttürkei)" [= Aras Valley west of Karakurt, 1300 metres above sea-level (Kars Province, eastern Turkey)]. — Distr.: **PA**: Turkey.

setiforceps (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 519 (*Smittia*). Type-locality: [Belau] "Ngiwal, Babelthuap I., Palau Is.". — Distr.: **AU**: Belau.

siamensis FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 200 (*Pseudosmittia*). Type-locality: "THAILAND: Pattaya". — Distr.: **OR**: Thailand.

simplex STRENZKE & THIENEMANN, 1942: *Internationale Revue der gesamten Hydrobiologie und Hydrographie* **42**(4/6): 368 (*Pseudosmittia*). Type-locality: [Austria] "vom Westufer des Lunzer Mittersees (Osthang des Höhersteins) aus einem Mischwald mit Buchen, Fichten, Ahorn zwischen zwei Lawinenhalden (etwa 765 m üb. M.)" [= from the west shore of the 'Middle Lake' at Lunz (east

slope of Höherstein Mountain) from a mixed forest of beech, fir, maple between two avalanche slopes (about 765 metres above sea-level]. Senior secondary homonym and senior synonym of *Smittia* (*Pseudosmittia*) *simplex* Goetghebuer, 1943 (below). — Distr.: **PA**: Austria, Czech Republic, Germany, Lithuania, Netherlands, ¶Yugoslavia.

simplex (GOETGHEBUER in GOETGHEBUER & LENZ, 1943): *Die Fliegen der Palaearktischen Region* **13g**: 108 (*Smittia* (*Pseudosmittia*)). Type-locality: [Austria] "Vom Lunzer See (Niederdonau) . . . Germania" [= From Lunz Lake (lower Danube) . . . Germany]. **Preoccupied**. Junior secondary homonym and junior synonym of *Pseudosmittia simplex* Strenzke & Thienemann, 1942 (above).

? *tenebrosa* (GOETGHEBUER in GOETGHEBUER & LENZ, 1943): *Die Fliegen der Palaearktischen Region* **13g**: 109 (*Smittia* (*Pseudosmittia*)). Type-locality: [Austria] "Vom Lunzer See (Niederdonau) . . . Germania" [= From Lunz Lake (lower Danube) . . . Germany]. **Questionable synonym**. **[Note]**

sirotskyi MAKARCHENKO & MAKARCHENKO, 2011: *Evraziatskii Entomologicheskii Zhurnal* **10**(3): 392 (*Pseudosmittia*). Type-locality: {Russia} **Yuzhnaya Yakutiya, Neryungrinskii r-n, r. Chul'man, okrestnosti g. Neryungri** [= South Yakutia, Neryungrinsky District, River Chul'man, vicinity of the town of Neryungri]. — Distr.: **PA**: Russia (East Siberia).

spinispinata FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 161 (*Pseudosmittia*). Type-locality: "U.S.A., South Carolina, Williamsburg Co., Kingstree, Black River". — Distr.: **NE**: U.S.A. (South Carolina).

subtrilobata (FREEMAN, 1956): *Bulletin of the British Museum (Natural History)* Entomology **4**(7): 357 (*Smittia*). Type-locality: [South Africa] "TRANSVAAL: Gladdespruit, nr. Badplaats" — Distr.: **AF**: D.R.Congo, South Africa, Tanzania.

tericristata FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 171 (*Pseudosmittia*). Type-locality: "AUSTRALIA: Western Australia, 4 km w. King Cascade, 15.38° S 125.15° E, camp site". — Distr.: **AU**: Australia (Western Australia).

tobaduovicesima KIKUCHI & SASA, 1990: *Japanese Journal of Sanitary Zoology* **41**(4): 325 (*Pseudosmittia*). Type-locality: Type-locality: {Sumatra, Indonesia} "at the side of Asahan Dam". — Distr.: **OR**: Indonesia (Sumatra).

tokaraneoa SASA & SUZUKI, 1995: *Japanese Journal of Sanitary Zoology* **46**(3): 278 (*Pseudosmittia*). Type-locality: {Tokara Islands, Japan} "Kuchinoshima". — Distr.: **PA**: Japan; **OR**: Japan (Ryukyu Archipelago).

famikelea SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 60 (*Pseudosmittia*). Type-locality: [Introduction, p. 16] "Japan . . . in the zoological garden called Toyama City Family Park on the foot of Kureha Hill"; [p. 47] "at the side of Rokusen Lake" [= Lake B, p. 16].

tokunagai FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 232 (*Pseudosmittia*). Type-locality: "PALAU (BELAU): Koror Island". — Distr.: **AU**: Belau.

topei LEHMANN, 1979: *Spixiana Supplement* **3**: 46 (*Pseudosmittia*). Type-locality: [Democratic Republic of the Congo] "Kalengo, Kivu-Gebiet, Zaire". — Distr.: **PA**: Crete, Turkey; **AF**: D.R.Congo, Ghana, Tanzania; **OR**: Japan (Ryukyu Archipelago).

ikemaensis SASA & HASEGAWA, 1988: *Japanese Journal of Sanitary Zoology* **39**(3): 244 (*Pseudosmittia*). Type-locality: {Ryukyu Islands, southern Japan} "on the bank of a small eutrophicated pool in the primary school of Ikema Island, Miyako".

amamiagina SASA & SUZUKI, 1993: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1993**: 116 (*Pseudosmittia*). Type-locality: [Abstract, p. 110] "Amami-Oshima Island, southern Japan"; [p. 116] "at (I), on the side of Kachiura River, Agina".

triangula (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 524 (*Smittia*). Type-locality: [Belau] "Koror I., Palau". — Distr.: **AF**: Seychelles; **OR**: China (Jiangxi); **AU**: Belau; **OC**: Marshall Islands.

trilobata (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 364

(*Spaniotoma* (*Smittia*)). Type-locality: [Great Britain] "Wicken, Cambs." [Cambs. = Cambridgeshire]. — Distr.: **PA**: Austria, Belgium, China (Inner Mongolia), Crete, **?**Denmark, Estonia, Finland, France, Germany, Great Britain, Ireland, Italy, **?**Latvia, Lebanon, Mongolia, **?**Netherlands, Norway, **?**Poland, **?**Romania, Russia (CET, NET, Far East), Slovakia, Spain, **?**Sweden, Turkey.

avicularia (GOETGHEBUER, 1950): *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* **26**(47): 13 (*Smittia* (*Pseudosmittia*)). Type-locality: "Puterersee, Ennstal (Autriche)" [= Putterersee, Ennstal (Austria]).

triplex STRENZKE, 1950: *Archiv für Hydrobiologie Supplement* **18**(2): 301 (*Pseudosmittia*). Type-locality: [Austria] "Hornkeeses (Zillertaler Alpen) in ca. 2000 m Höhe" [= Hornkeeses (Zillertaler Alps) at an altitude of about 2000 metres]. — Distr.: **PA**: Austria. [**Note**]

tropis ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 65 (*Pseudosmittia*). Type-locality: "ECUADOR: Pastaza Province, Puyo, Terminal Terrestre, 950 m a.s.l.". — Distr.: **NT**: Brazil, Ecuador.

umbonata ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 67 (*Pseudosmittia*). Type-locality: "BRAZIL: São Paulo State, Estação Ecológica Juréia-Itatins, Peruíbe, 24°31'06"S, 47°12'06"W". — Distr.: **NT**: Brazil.

uncata ANDERSEN, SÆTHER & MENDES, 2010: *Zootaxa* **2472**: 69 (*Pseudosmittia*). Type-locality: "BRAZIL: Paraná State, Ponta Grossa, Fazenda Paiquerê". — Distr.: **NT**: Brazil.

unniae FERRINGTON & SÆTHER, 2011: *Zootaxa* **2849**: 177 (*Pseudosmittia*). Type-locality: "GHANA: Accra, Legon, Botanical Garden". — Distr.: **AF**: Ghana.

windwardensis (SÆTHER, 1981): *Entomologica Scandinavica Supplement* **16**: 23 (*Smittia*). Type-locality: "442 m a.s.l., below waterfall, Majorca, Yambou River, St. Vincent". — Distr.: **NT**: Brazil, Costa Rica, St. Lucia, St. Vincent.

xanthostola (KIEFFER, 1911): *Transactions of the Linnean Society of London (2nd Series, Zoology)* **14**: 362 (*Dactylocladius*). Type-locality: "Seychellen. Mahé: Anonyme Island, from seaweed" [Seychellen = Seychelles] [Lectotype

designated in Sæther, 2004: *Annales de Limnologie* **40**(4): 298, "SEYCHELLES: Mahé, Cascade Estate"]. — Distr.: **AF**: Seychelles.

heterostola (KIEFFER, 1911): *Transactions of the Linnean Society of London (2nd Series, Zoology)* **14**: 363 (*Dactylocladius*). Type-locality: "Seychellen. Mahé: Anonyme Island, from seaweed" [Seychellen = Seychelles] [Lectotype designated in Sæther, 2004: *Annales de Limnologie* **40**(4): 298, "SEYCHELLES: . . . Anonyme Island"].

yapensis (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 525 (*Smittia*). Type-locality: [Federated States of Micronesia] "Rumung I., Yap". — Distr.: **OC**: Federated States of Micronesia, Marshall Islands.

zonata (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 528 (*Smittia*). Type-locality: [Belau] "Ngiwal, Babelthuap I., Palau". — Distr.: **AU**: Belau; **OC**: Federated States of Micronesia, Guam, Northern Marianas.

guamensis (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 532 (*Smittia*). Type-locality: "Mt. Lamlam, Guam".

Nomina dubia in PSEUDOSMITTIA

hexalobus (KIEFFER, 1924): *Annales de la Société Scientifique de Bruxelles, Ire partie (Comptes Rendus)* **43**: 395 (*Camptocladius*). Type-locality: [Germany] "Lac Dameshoved, Holstein" [= Dameshöved Lake, Holstein. [**Note**]

vicana (GOETGHEBUER in GOETGHEBUER & LENZ, 1943): *Die Fliegen der Palaearktischen Region* **13g**: 110 (*Smittia* (*Pseudosmittia*)). Type-locality: "Belgia" [= Belgium]. [**Note**]

Unavailable names in PSEUDOSMITTIA

togaretea SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120 (*Pseudosmittia*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a

description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togasezia SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120 (*Pseudosmittia*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

Genus **PSILOMETRIOCNEMUS** SÆTHER

PSILOMETRIOCNEMUS SÆTHER, 1969: *Bulletin of the Fisheries Research Board of Canada* **170**: 105. Type-species: *Psilometriocnemus triannulatus* Sæther, 1969, by original designation.

europaeus TUISKUNEN, 1986: *Annales Entomologici Fennici* **51**(4): 101 (*Psilometriocnemus*). Type-locality: "Finland, Le, Enontekiö, Näkkäläjoki (760:36)". — Distr.: **PA**: Finland, Norway. **[Note]**

triannulatus SÆTHER, 1969: *Bulletin of the Fisheries Research Board of Canada* **170**: 107 (*Psilometriocnemus*). Type-locality: [U.S.A.] "Monroe Brook, Mt. Washington, New Hampshire". — Distr.: **NE**: Canada (New Brunswick, Nova Scotia, Ontario, Québec,), U.S.A. (Florida, Georgia, Kansas, Minnesota, New Hampshire, North Carolina, Ohio, South Carolina, Tennessee).

cristatus SÆTHER, 1982: *Entomologica Scandinavica* **13**(4): 480 (*Psilometriocnemus*). Type-locality: "U.S.A. . . . seep-first order stream, Clemson Univ., Issaqueena Forest, Pickens Co., South Carolina".

Genus **PTEROSIS** SUBLETTE & WIRTH

PTEROSIS SUBLETTE & WIRTH, 1980: *New Zealand Journal of Zoology* **7**: 317. Type-species: *Pterosis wisei* Sublette & Wirth, 1980, by original designation.

wisei SUBLETTE & WIRTH, 1980: *New Zealand Journal of Zoology* **7**: 317 (*Pterosis*).

Type-locality: {New Zealand} "Aukland Is, Adams I., W end, 50 ft". — Distr.: **AU**: New Zealand (Auckland Islands, Campbell Island).

Genus **QINIELLA** WANG & SÆTHER

QINIELLA WANG & SÆTHER, 1998: *Hydrobiologia* **362**: 103. Type-species: *Qiniella lii* Wang & Sæther, 1998, by original designation.

QUINIELLA: incorrect original spelling.

copa MENDES & ANDERSEN, 2002: *Tijdschrift voor Entomologie* **145**(1): 91 (*Qiniella*). Type-locality: "MALAYSIA: Sabah, Kinabalu-Gebiet, approx. 500 m a.s.l.". — Distr.: **OR**: Malaysia.

lii WANG & SÆTHER, 1998: *Hydrobiologia* **362**: 104 (*Qiniella*). Type-locality: "CHINA: Henan: Song County, Baiyunshan Forestry Farm". — Distr.: **PA**: China (Henan).

thai MENDES & ANDERSEN, 2002: *Tijdschrift voor Entomologie* **145**(1): 91 (*Qiniella*). Type-locality: "THAILAND: Doi Inthanon". — Distr.: **OR**: Thailand.

Genus **RHAGOSMITTIA** FERRINGTON & SÆTHER

RHAGOSMITTIA FERRINGTON & SÆTHER, 2006: *Aquatic Insects* **28**(4): 244. Type-species: *Spaniotoma* (*Smittia*) *maculiventris* Edwards, 1933, by original designation.

maculiventris (EDWARDS, 1933): *Bernice P. Bishop Museum Bulletin* **114**: 89 (*Spaniotoma* (*Smittia*)). Type-locality: {Marquesas Islands} "Uahuka: Putatauua, Vaipaee Valley, altitude 800 feet". — Distr.: **OC**: French Polynesia (Marquesas), Western Samoa.

Genus **RHEOCRICOTOPUS** BRUNDIN

RHEOCRICOTOPUS BRUNDIN, 1956: *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 118. Type-species: *Chironomus effusus* Walker, 1856, by original designation. [**Note**]

RHEOCRICOTOPUS THIENEMANN & HARNISCH, 1932: *Zoologischer Anzeiger* **99**(5/6): 135. Type-species: Not given. Name not made available - not accompanied by fixation of a type-species contrary to Article 13.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

PSILOCRICOTOPUS SÆTHER, 1986: see below as subgenus.

RHEOCRICOTOPUS BRUNDIN, 1956: see below as subgenus.

Subgenus **PSILOCRICOTOPUS** SÆTHER

PSILOCRICOTOPUS SÆTHER, 1986: *Spixiana Supplement* **11**: 72. Type-species: *Cricotopus atripes* Kieffer, 1913, by original designation.

akagisecundus (KIKUCHI & SASA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 114 (*Rheocricotopus* (*Paracricotopus*)). Type-locality: {Japan} [p. 112] "at the side of a fountain stream on the slope of Mount Akagi (Gunma)". — Distr.: **PA**: Japan.

atripes (KIEFFER, 1913): *Bulletin de la Société d'Histoire Naturelle de Metz* **28**: 32 (*Cricotopus*). Type-locality: "Allemagne: Sauerland" [Allemagne = Germany] ‖►Type-locality: [Germany] "In Wiesenquellen und Quellrinnsalen des Zuflußgebietes der Haspertalsperre" [= In meadow springs and spring rivulets of the inflow region of the Hasper Dam] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 77◄‖. — Distr.: **PA**: Austria, Azores, China (Henan), Corsica, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, **?**Lebanon, Luxembourg, **?**Madeira, Morocco, Netherlands, Norway, Portugal, Romania, Russia (CET, East Siberia), Slovakia, Spain, Turkey.

atripes (THIENEMANN, 1912): *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 77 (*Cricotopus*; as "*atripes* Kieff."). Type-locality: [Germany] "In Wiesenquellen und Quellrinnsalen des Zuflußgebietes der Haspertalsperre" [= In meadow springs and spring rivulets of the inflow region of the Hasper Dam]. Name not made available - not accompanied by a

description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

foveatus (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 330 (*Spaniotoma* (*Trichocladius*)). Type-localities: [GB, England] "Minchinhampton, Glos." [Glos. = Gloucestershire]; "Sidmouth, S. Devon"; "Corriegills, Arran"; "Kincraig".

iridipennis (STORÅ, 1945): *Commentationes Biologicae* **8**(10): 25 (*Trichocladius*). Type-localities: {Azoren} [= Azores] "Mig.: Lagoa do Congro" [Mig. = São Miguel]; "Furnas"; "Terc.: Praia da Victoria, Fonduros" [Terc. = Terceira]; "Lagoa Achada"; "Agualva"; "Jorge: Calheta" [Jorge = São Jorge]; "Ribeira do Salto"; "Ilheo do Topa"; "Ribeira Funda"; "Fay.: Ribeira"; "Caldeira" [Fay. = Faial]; "Flor.: Ribeira da Cruz" [Flor. = Flores].

bicornuatus BHATTACHARYAY, ALI & CHAUDHURI, 1991: *Beiträge zur Entomologie* **41**(2): 343 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: "India, West Bengal, Kurseong". — Distr.: **OR**: India (West Bengal).

bifasciatus WANG & ZHENG, 1991: *Acta Zootaxonomica Sinica* **16**(1): 100 (*Rheocricotopus*). Type-locality: [p. 104, English Summary] {China} "Sichuan (Mt. Jinfo, 29.0°N, 107.1°E, 1800 m.)". — Distr.: **OR**: China (Sichuan).

brachypus WANG & ZHENG, 1991: *Acta Zootaxonomica Sinica* **16**(1): 101 (*Rheocricotopus*). Type-locality: [p. 104-105, English Summary] {China} "Guangdong Province (Fengkai County, 23.4°N, 111.4°E)". — Distr.: **OR**: China (Guangdong).

calviculus WANG & SÆTHER, 2001: *Hydrobiologia* **444**: 237 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: "CHINA: Shaanxi Province, Zhouzhi County . . . 1200 m a .s. l.". — Distr.: **PA**: China (Shaanxi).

capensis (FREEMAN, 1953): *Proceedings of the Royal Entomological Society* (B) **22**(7/8): 133 (*Trichocladius*). Type-locality: [South Africa] "Berg River, Wellington". — Distr.: **AF**: D.R.Congo, Ethiopia, Lesotho, South Africa, Tanzania, Togo, Zimbabwe.

cereofasciatus (GOETGHEBUER, 1934): *Revue de Zoologie et de Botanique Africaines* **25**: 202 (*Cricotopus*). Type-locality: [Democratic Republic of the Congo] {Congo Belge} "pris à Kisantu" [= caught at Kisantu]. — Distr.: **AF**: D.R.Congo, Madagascar, Zimbabwe.

chalybeatus (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 331 (*Spaniotoma* (*Trichocladius*)). Type-localities: [Great Britain] "Watford, Herts." [Herts. = Hertfordshire]; "Biggleswade, Beds." [Beds. = Bedfordshire]; "Shrewsbury, Salop" [Salop = Shropshire]; "Sidmouth and Gorge of Dart, S. Devon"; "Staveley, Westmoreland"; "Ilkley, Yorks." [Yorks. = Yorkshire] [Lectotype designated in Sæther, 1986: *Spixiana Supplement* **11**: 82, [Great Britain] "canal nr. Watford, Herts., England"]. — Distr.: **PA**: Algeria, Balearic Islands, Belarus, Belgium, Corsica, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Japan, Lebanon, Luxembourg, Mongolia, Morocco, Netherlands, Poland, Portugal, Romania, Russia (CET, NET, Far East), Slovakia, Spain, Switzerland, Syria, Tunisia, Turkey, Ukraine.

chalybeatus subsp. **bicoloratus** CASPERS & REISS, 1989: *Entomofauna* **10**(8): 135 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: "Botan Cayi-Tal, 500 m über NN (Provinz Siirt, Südosttürkei)" [= Botan Cayi Valley, 500 metres above sea-level (Province of Siirt, South-east Turkey)]. — Distr.: **PA**: Turkey.

chalybeatus subsp. **chalybeatus** (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 331 (*Spaniotoma* (*Trichocladius*)). Type-localities: [Great Britain] "Watford, Herts." [Herts. = Hertfordshire]; "Biggleswade, Beds." [Beds. = Bedfordshire]; "Shrewsbury, Salop" [Salop = Shropshire]; "Sidmouth and Gorge of Dart, S. Devon"; "Staveley, Westmoreland"; "Ilkley, Yorks." [Yorks. = Yorkshire] [Lectotype designated in Sæther, 1986: *Spixiana Supplement* **11**: 82, "canal nr. Watford, Herts., England"]. — Distr.: **PA**: Algeria, Balearic Islands, Belarus, Belgium, Corsica, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Japan, Lebanon, Luxembourg, Morocco, Netherlands, Poland, Portugal,

Romania, Russia (CET, NET, Far East), Slovakia, Spain, Switzerland, Turkey, Ukraine.

urbanus (GOETGHEBUER, 1932): *Faune de France* **23**: 101 (*Eukiefferiella*). Type-locality: "Belgique : Gand " [Belgique = Belgium].

leruthi (GOETGHEBUER, 1939): *Bulletin du Musée Royal d'Histoire Naturelle de Belgique* **15**(56): 2 (*Trichocladius*; as "*Leruthi*"). Type-locality: {Roumanie} "dans la Pesterea II dela Tîgla (R. 101), comuna Vârciorog, plasa Tileagd, jud. Bihor" [= in the Pesterea II beyond the Tîgla (R. 101), comuna Vârciorog, plasa Tileagd, jud. Bihor] [Roumanie = Romania].

yamashiroprimus (SASA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 30 (*Paratrichocladius*; [p. 30] as "*yamasiroprimus*", [p. 57] as "*yamashiroprimus*"). Type-locality: {Japan} [p. 28] "YAMASHIRO HOTSPRING TOWN, ISHIKAWA". [**Note**]

yamasiroprimus: incorrect original spelling.

shofukutertius SASA, 1998: *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 31 (*Rheocricotopus*). Type-locality: {Japan} [Abstract, p. 14] "in the Shofuku Garden, . . . about 1 km from the mouth of Kurobe River".

shofulutertius: incorrect original spelling.

toneefea (SASA & TANAKA, 2000): *Annual Report of Gunma Prefecture Institute of Public Health and Environmental Sciences* **32**: 40 (*Eukiefferiella*). Type-locality: {Japan} [Title, p. 38] "Tone River, Gunma Prefecture"; [p. 40] "at Taisho Bridge".

fukuabeus SASA & TANAKA, 2001: *Annual Report of the Gunma Prefecture Institute of Public Health and Environmental Science* **33**: 54 (*Rheocricotopus*). Type-locality: {Japan} [Abstract, p. 41] "Tone River, Gunma Prefecture"; [p. 54] "Fukushima Bridge".

chapmani (EDWARDS, 1935): *Annals and Magazine of Natural History* (10) **15**: 471 (*Spanitoma* (*Trichocladius*)). Type-localities: {Greenland} "Lake Fjord";

"Jameson Land". — Distr.: **NE**: Canada (Northwest Territories), Greenland; **PA**: Finland, Norway.

conflusirus SÆTHER, 1986: *Spixiana Supplement* **11**: 72 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: "Jocasse Reservoir, Salem, Oconee Co., South Carolina, U.S.A.". — Distr.: **NE**: U.S.A. (South Carolina).

constrictus YAN & WANG, 2004: *Acta Zootaxonomica Sinica* **29**(3): 560 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: "China : Hubei Province, Xianfeng County, Luoheba (alt. 400 m; 29°40′ N, 109°08′ E)". — Distr.: **OR**: China (Fujian, Hubei).

emeiensis WANG & ZHENG, 1989: *Entomotaxonomia* **11**(4): 311 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: [p. 313, English Summary] {China} "Sichuan Province (Mt. Emei)". — Distr.: **OR**: China (Fujian, Sichuan).

frequens BHATTACHARYAY, ALI & CHAUDHURI, 1991: *Beiträge zur Entomologie* **41**(2): 345 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: "India, West Bengal, Darjeeling". — Distr.: **OR**: India (West Bengal).

gallicus LEHMANN, 1969: *Archiv für Hydrobiologie* **66**(3): 358 (*Rheocricotopus*). Type-locality: "an einer Brücke des Escoutay, nahe Viviers (Ardèche), Frankreich" [= on a bridge of the Escoutay stream, near Viviers (Ardèche), France]. — Distr.: **PA**: France, Italy, **?**Portugal, Spain, Turkey.

glabricollis (MEIGEN, 1830): *Systematische Beschreibung* **6**: 248 (*Chironomus*). Type-locality: [Title] "europäischen" [= European] [Lectotype designation in Sæther, 1986: *Spixiana Supplement* **11**: 87]. — Distr.: **NE**: Canada (Manitoba), U.S.A. (Georgia, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee); **PA**: Austria, Canary Islands, China (Tibet), Czech Republic, Denmark, France, Germany, Great Britain, Hungary, Ireland, Italy, Macedonia, Morocco, Netherlands, Poland, Russia (Far East), Slovakia, Spain, Tunisia, Turkey.

ornaticollis (SANTOS-ABREU, 1918): *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 210 (*Orthocladius* (*Paratrichocladius*)). Type-locality: {Canary Islands} "en la isla de la Palma . . . en las immediaciones de

los bosques y posteriormente en los alrededores de Santa Cruz de la Palma" [= on the island of La Palma . . . in the immediate vicinity of the forest and then Santa Cruz de la Palma].

boiemicus (KIEFFER, 1923): *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 148 (*Cricotopus*). Type-locality: [Czech Republic] "Bohême : Slavitz" [= Bohemia : Slavičín].

gouini (GOETGHEBUER in GOUIN, 1936): *Revue Française d'Entomologie* **3**: 167 (*Trichocladius*; "*Gouini*"). Type-locality: {France} "Vendenheim (« Schlossgraben »)" [Schlossgraben = moat].

extatus (ROBACK, 1957): *Monographs of the Academy of Natural Sciences of Philadelphia* **9**: 84 (*Trichocladius*). Type-locality: [U.S.A.] "Spring along Rose Glen Road, Gladwyne, Pa." [Pa. = Pennsylvania].

godavarius LEHMANN, 1969: *Archiv für Hydrobiologie* **66**(3): 361 (*Rheocricotopus*). Type-locality: "Godavari, Nepal, 5000' ". — Distr.: **OR**: Nepal.

gotocedeus SASA & SUZUKI, 2001: *Tropical Medicine* **42**(3/4): 145 (*Rheocricotopus*). Type-locality: {Goto Islands, Western Japan} "Wani River". — Distr.: **PA**: Japan.

hidakadeeus SASA & SUZUKI, 2001: *Tropical Medicine* **42**(3/4): 184 (*Rheocricotopus*). Type-locality: {Hokkaido, Japan} [p. 178] "in the Hidaka Mountain areas"; [p. 184] "Nakasatsunai Village". — Distr.: **PA**: Japan.

himalayensis CHAUDHURI & SINHARAY, 1983: *Entomologica Basiliensia* **8**: 398 (*Rheocricotopus*). Type-locality: {India} "West Bengal, Kurseong". — Distr.: **OR**: India (West Bengal). [**Note**]

imperfectus MAKARCHENKO & MAKARCHENKO, 2005: *Evraziatskii Entomologicheskii Zhurnal* **4**(2): 126 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: {Russia, Far East} **OSTROV SAKHALIN, Dolinskii r-n, okrestnosti pos. Sokol, r. Belaya** [= Sakhalin Island, Dolinsky District, vicinity of the town of Sokol, River Belaya]. — Distr.: **PA**: Russia (Far East).

insularis MAKARCHENKO & MAKARCHENKO, 2005: *Evraziatskii Entomologicheskii*

Zhurnal **4**(2): 129 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: {Russia, Far East} **KURIL'SKIE OSTROVA, o-v Shiashkotan, bezymyannyi ruchei, stekayushchii s gory Pikovaya k zapadu ot mysa Grotovyi** [= Kuril Islands, island of Shiashkotan, anonymous stream, flowing down from Pikovaya Mountain to the west of Cape Grotovyi]. — Distr.: **PA**: Russia (Far East).

intermedius (TOKUNAGA, 1939): *Philippine Journal of Science* **69**(3): 332 (*Spaniotoma* (*Trichocladius*)). Type-locality: "Honshu, Japan . . . Kibune, Kyoto". — Distr.: **PA**: Japan.

isigadeeus SASA & SUZUKI, 2000: *Tropical Medicine* **42**(1): 7 (*Rheocricotopus*). Type-locality: {Japan} [p. 4] "Ishigaki Island"; [p. 7] "at the side of Nakura River". — Distr.: **OR**: Japan (Ryukyu Archipelago).

kamimonji SASA & HIRABAYASHI, 1993: *Japanese Journal of Sanitary Zoology* **44**(4): 364 (*Rheocricotopus*). Type-locality: {Japan} [p. 362] "Kamikochi"; [p. 364] "at Kamikochi (H)" ["(H)" = "Nishiitoya Hotel"]. — Distr.: **PA**: Japan.

kurocedeus SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 19 (*Rheocricotopus*). Type-locality: [Japan] "at Kuroyon Lodge at the side of Kuroyon Lake". — Distr.: **PA**: Japan.

lindbergi LEHMANN, 1969: *Archiv für Hydrobiologie* **66**(3): 360 (*Rheocricotopus*). Type-locality: "Kadjahkai (70 km nord-östlich von Guerechk, Afghanistan, ca. 1100 m ü. N. N.)" [= Kadjahkai (70 kilometres north-east from Guerechk, Afghanistan, circa 1100 metres above sea-level)]. — Distr.: **PA**: Afghanistan, Turkey.

lobalis (JOHANNSEN, 1932): *Archiv für Hydrobiologie Supplement* **9**: 726 (*Spaniotoma* (*Trichocladius*)). Type-locality: [Indonesia] "in a pond in the Botanical Garden in Buitenzorg, Java" [Buitenzorg = Bogor]. — Distr.: **OR**: Indonesia (Java).

mediocris (JOHANNSEN, 1932): *Archiv für Hydrobiologie Supplement* **9**: 728 (*Spaniotoma* (*Trichocladius*)). Type-locality: [Indonesia] "from near Balige, Toba District, Sumatra". — Distr.: **OR**: Indonesia (Sumatra).

metallescens (GOETGHEBUER, 1934): *Revue de Zoologie et de Botanique Africaines* **25**: 204 (*Eukiefferiella*). Type-locality: [Democratic Republic of the Congo] {Congo Belge} "à Kisantu" [= at Kisantu]. — Distr.: **AF**: Dameroon, Chad, D.R.Congo, Nigeria, Sierra Leone, Sudan.

nemoacrostichalis CHAUDHURI & SINHARAY, 1983: *Entomologica Basiliensia* **8**: 401 (*Rheocricotopus*). Type-locality: {India} "West Bengal, Tindharia". — Distr.: **OR**: India (West Bengal).

nigrus WANG & ZHENG, 1989: *Entomotaxonomia* **11**(4): 311 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: [p. 313, English Summary] {China} "Hubei Province (Gucheng)". — Distr.: **PA**: Russia (Far East); **OR**: China (Hubei).

notabilis CASPERS, 1987: *Aquatic Insects* **9**(3): 170 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: "Rio Zêzere, Fonte Santa (Manteigas), Serra da Estrela, Portugal". — Distr.: **PA**: Portugal, Spain.

nudisquamus MAKARCHENKO & MAKARCHENKO, 2009: *Evraziatskii Entomologicheskii Zhurnal* **8**(1): 122 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: "Priamushka River, Lazovsky Nature Reserve, Lazovsky District, Primorye Territory, Russian Far East". — Distr.: **PA**: Russia (Far East).

oiraprimus SASA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 72 (*Rheocricotopus*). Type-locality: {Japan} "at the side of Oirase River". — Distr.: **PA**: Japan.

okifoveatus SASA, 1990: *Japanese Journal of Experimental Medicine* **60**(3): 129 (*Rheocricotopus*). Type-locality: {Nansei Islands, southern Japan} "Genga River, Okinawa". — Distr.: **OR**: Japan (Ryukyu Archipelago).

rarispina HAZRA & CHAUDHURI, 2004: *Animal Biodiversity and Conservation* **27**(2): 2 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: {India} "West Bengal, Tiger Hill (Darjeeling)". — Distr.: **OR**: India (Sikkim, West Bengal).

rigidus (JOHANNSEN, 1932: *Archiv für Hydrobiologie Supplement* **9**: 728 (*Spaniotoma* (*Trichocladius*)). Type-locality: [Indonesia] "near a waterfall at Sarangan, Middle Java, . . . Elevation 1410 meters". — Distr.: **OR**: Indonesia (Java).

robacki (BECK & BECK, 1964): *Florida Entomologist* **47**(3): 204 (*Trichocladius*). Type-locality: [U.S.A.] "Peter's Creek, Clay County, Fla" [Fla = Florida]. — Distr.: **NE**: Canada (Ontario), U.S.A. (Alabama, Florida, Georgia, Mississippi, Montana, New York, North Carolina, Ohio, South Carolina, South Dakota, Tennessee).

kenorensis SÆTHER, 1969: *Bulletin of the Fisheries Research Board of Canada* **170**: 88 (*Rheocricotopus*). Type-locality: [Canada] "fast flowing stream, between miles 18 and 19 on Mando logging road, Kenora, Ont." [Ont. = Ontario].

sirventorum ANDERSEN & MENDES, 2012: *Biota Neotropica* **12**(1): 114 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: "Brazil: Mato Grosso, Nova Xavantina, Fazenda Queté, córrego Cachoeira, 14° 32.817' S and 52° 31.395' W". — Distr.: **NT**: Brazil.

subacutus CASPERS & REISS, 1989: *Entomofauna* **10**(8): 139 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: "Celik Gölü bei Gölbasi, 900 m über NN (Provinz Adiyaman, östliche Südtürkei)" [= Celik Gölü near Gölbasi, 900 metres above sea-level (Province of Adiyaman, eastern Southern Turkey)]. — Distr.: **PA**: Spain, Turkey.

taiwanensis WANG, YAN & MAA, 2004: *Entomologia Sinica* **11**(3): 239 (*Rheocricotopus*). Type-locality: "China, Taiwan Province, Taipei City, Kuandu, Wetland". — Distr.: **OR**: Taiwan.

tirolus LEHMANN, 1969: *Archiv für Hydrobiologie* **66**(3): 359 (*Rheocricotopus*). Type-locality: [Austria] "am Bach, Obergurgl/ Tirol" [= at a brook, Obergurgl, Tirol]. — Distr.: **PA**: Austria, Cyprus, Finland, France, Germany, Great Britain, Ireland, Morocco, Norway, Portugal, Slovakia, Spain, Switzerland.

tobatervicesimus KIKUCHI & SASA, 1990: *Japanese Journal of Sanitary Zoology* **41**(4): 327 (*Rheocricotopus*). Type-locality: {Sumatra, Indonesia} "at the side of Lake Toba". — Distr.: **OR**: Indonesia (Sumatra).

tokarakeleus SASA & SUZUKI, 1995: *Japanese Journal of Sanitary Zoology* **46**(3): 270 (*Rheocricotopus*). Type-locality: {Tokara Islands, Japan} "Kuchinoshima". —

Distr.: **OR**: Japan (Ryukyu Archipelago).

valgus CHAUDHURI & SINHARAY, 1983: *Entomologica Basiliensia* **8**: 402 (*Rheocricotopus*). Type-locality: {India} "West Bengal, Darjeeling". — Distr.: **OR**: India (West Bengal).

villiculus WANG & SÆTHER, 2001: *Hydrobiologia* **444**: 238 (*Rheocricotopus* (*Psilocricotopus*)). Type-locality: "CHINA: Henan province, Jigong Mt., 700 m a. s. l.". — Distr.: **OR**: China (Henan).

sp.: ASHE, 1990: *Insects and the rain forests of South East Asia (Wallacea)*: 267 (*Rheocricotopus* (*Psilocricotopus*)). Locality: {Indonesia} "Sulawesi". — Distr.: **OR**: Indonesia (Sulawesi).

sp.: CRANSTON, 1997: *AWT Identification Guide Number* **1**: 93 (*Rheocricotopus*). Localities: {Australia} "Western Australia . . . from northern rivers (including Hamersley Gorge)"; "NSW . . . from River Marray tributaries in Albury Wodonga, the Shoalhaven (Hillview and Warri Bridge), Barrengarry River, Deua River, Paddys River" [NSW = New South Wales]. — Distr.: **AU**: Australia (New South Wales, Western Australia).

Subgenus **RHEOCRICOTOPUS** BRUNDIN

amamipubescius (SASA, 1990): *Japanese Journal of Experimental Medicine* **60**(3): 127 (*Eukiefferiella*). Type-locality: {Amami Island, Nansei Islands, southern Japan} "Yakkachi River". — Distr.: **OR**: Japan (Ryukyu Archipelago).

amplicristatus SÆTHER, 1986: *Spixiana Supplement* **11**: 95 (*Rheocricotopus* (*Rheocricotopus*)). Type-locality: "Upper Three Runs Creek, Savanagh River Plant SRP 8–1, Aiken Co., South Carolina, U.S.A.". — Distr.: **NE**: U.S.A. (Georgia, South Carolina).

baishanensis WANG & ZHENG, 1991: *Acta Zootaxonomica Sinica* **16**(1): 102 (*Rheocricotopus*). Type-locality: [p. 105, English Summary] {China} "Jilin Province (Mt. Changbai, 42.0°N, 128.1°E)". — Distr.: **PA**: China (Jilin).

effusoides SÆTHER, 1986: *Spixiana Supplement* **11**: 98 (*Rheocricotopus* (*Rheocricotopus*)).

Type-locality: "Ed's Creek, Gavin's Point National Fish Hatchery, Yankton, South Dakota, U.S.A.". — Distr.: **NE**: U.S.A. (Ohio, South Dakota); **PA**: (East Siberia).

effusus (WALKER, 1856): *Insecta Britannica Diptera* **3**: 180 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England]. — Distr.: **NE**: Canada (Northwest Territories), U.S.A. (Illinois, North Carolina, South Carolina, South Dakota); **PA**: Austria, Belarus, Bulgaria, Corsica, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Iceland, Ireland, Italy, Lebanon, Luxembourg, Moldova, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia (CET, NET, East Siberia, Far East), Slovakia, Spain, Sweden, Switzerland, Tunisia, Turkey; **OR**: China (Fujian, Sichuan), Nepal.

striatus (MALLOCH, 1915): *Bulletin of the Illinois State Laboratory of Natural History* **10**: 517 (*Orthocladius* (*Trichocladius*)). Type-locality: [U.S.A.] "Dubois, Ill." [Ill. = Illinois].

rivicola (KIEFFER, 1921): *Archiv für Hydrobiologie Supplement* **2**(4): 804 (*Cricotopus*). Type-locality: [Germany] "Eifel, Larven in einer Quelle" [= Eifel, larvae in a spring] ‖►Type-locality: [Germany] "Eifel: Quelle bei Schalkenmehren" [= Eifel: spring near Schalkenmehren] in Thienemann & Harnisch, 1932: *Zoologischer Anzeiger* **99**(5/6): 139◄‖.

dorieri (GOETGHEBUER in GOETGHEBUER & DORIER, 1932): *Travaux du Laboratoire d'Hydrobiologie et de Pisciculture de l'Université de Grenoble* **23**: 65 (*Orthocladius* (*Dactylocladius*) ; as "*Dorieri*"). Type-locality: [France] [p. 61] "Environs de Grenoble, le ruisseau de Saint-Robert" [= vicinity of Grenoble, the Saint-Robert stream].

holosericeus (GOETGHEBUER in GOUIN, 1936): *Revue Française d'Entomologie* **3**: 167 (*Trichocladius*). Type-locality: {France} "Echery".

brunensis (GOETGHEBUER, 1937): *Bulletin et Annales de la Société Entomologique de Belgique* **77**(6): 275 (*Trichocladius*). Type-locality: [Czech Republic] "Environs de Brno (Bohême)" [= vicinity of Brno (Bohemia)]

eminellobus SÆTHER, 1969: *Bulletin of the Fisheries Research Board of Canada* **170**: 85 (*Rheocricotopus*). Type-locality: [Canada] "large mountain stream, Rowe Creek, above highway to Cameron Lake, Waterton National Park, Alta." [Alta. = Alberta]. — Distr.: **NE**: Canada (Alberta, Ontario), U.S.A. (North Carolina, Ohio, South Carolina, Tennessee); **PA**: Russia (Far East).

fuscipes (KIEFFER, 1909): *Bulletin de la Société d'Histoire Naturelle de Metz* **26**: 45 (*Cricotopus*; as "*Fuscipes*"). Type-locality: {Allemagne} [= Germany] "Gotha ; larves . . . dans un fossé" [= Gotha ; larvae . . . in a ditch]. — Distr.: **PA**: Austria, Belarus, Belgium, Corsica, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Japan, Lebanon, Luxembourg, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia (CET), Sardinia, Sicily, Slovakia, Spain, Switzerland, Tunisia, Turkey.

sordicola (KIEFFER, 1912): *Bulletin de la Société Entomologique de France* **1912**: 87 (*Cricotopus*). Type-locality: [Germany] "Géra" [= Gera] ‖►Type-locality: [Germany] "aus der Gera bei Arnstadt in Thüringen" [= from the Gera at Arnstadt in Thüringia], in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 77]◄‖.

sordiicola, *sordidicola*: incorrect subsequent spellings.

fuscithorax (KIEFFER, 1913): *Bulletin de la Société d'Histoire Naturelle de Metz* **28**: 32 (*Cricotopus*; as var. of "*sordiicola*" [= *sordicola*] Kieffer, 1912). Type-locality: {Allemagne} [= Germany] "île de Rügen" [= island of Rügen]. [**Note**]

fuscithorax (THIENEMANN, 1912): *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 77 (*Cricotopus*; as var. of "*sordiicola*" [= *sordicola*] Kieffer, 1912). Locality: [Germany] "im Schlamm der Glinde bei Niedermarsberg" [= in the mud of the Glinde at Niedermarsberg]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**. [**Note**]

discolor (KIEFFER, 1913): *Bulletin de la Société d'Histoire Naturelle de Metz* **28**: 33

(*Cricotopus*; as var. of "*sordiicola*" [= *sordicola*] Kieffer, 1912). Type-locality: "Sauerland, Allemagne" [= Germany] ‖►Type-locality: [Germany] "In Wiesenquellen und Quellrinnsalen des Zuflußgebietes der Haspertalsperre" [= In meadow springs and spring rivulets of the inflow region of the Hasper Dam reservoir] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 77◄‖.

discolor (THIENEMANN, 1912): *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 77 (*Cricotopus*; as var. of "*sordiicola*" [= *sordicola*] Kieffer, 1912). Locality: [Germany] "In Wiesenquellen und Quellrinnsalen des Zuflußgebietes der Haspertalsperre" [= In meadow springs and spring rivulets of the inflow region of the Hasper Dam reservoir]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

dispar (GOETGHEBUER, 1913): *Annales de Biologie Lacustre* **6**(2/3): 151 (*Cricotopus*). Type-locality: {Belgique} "dans les bois de Schelderode lez-Gand" [= in the forest of Schelderode lez-Gand] Belgique = Belgium].

sylvaticus (GOETGHEBUER, 1937): *Bulletin et Annales de la Société Entomologique de Belgique* **77**(6): 274 (*Trichocladius*). Type-locality: "dans les bois de Melle, . . . (Belgique)" [= in the forest of Melle, . . . (Belgium)].

inaquereus SASA, KITAMI & SUZUKI, 2001: *Memoirs of the Museum of Dr. Hideyo Noguchi*: 19 (*Rheocricotopus*). Type-locality: [Abstract, p. 2] "on the shore of Lake Inawashiro . . . Japan". — Distr.: **PA**: Japan.

inaxeyeus SASA, KITAMI & SUZUKI, 2001: *Memoirs of the Museum of Dr. Hideyo Noguchi*: 19 (*Rheocricotopus*). Type-locality: [Abstract, p. 2] "on the shore of Lake Inawashiro . . . Japan". — Distr.: **PA**: Japan.

nepalensis LEHMANN, 1969: *Archiv für Hydrobiologie* **66**(3): 362 (*Rheocricotopus*). Type-locality: "Nepal, 27°57′ N. 84°59′ E". — Distr.: **OR**: Nepal.

orientalis WANG, 1995: *Aquatic Insects* **17**(1): 37 (*Rheocricotopus* (*Rheocricotopus*)). Type-locality: "China; Guangdong, Fengkai, Heishiding natural conservation". —

Distr.: **OR**: China (Guangdong).

pauciseta SÆTHER, 1969: *Bulletin of the Fisheries Research Board of Canada* **170**: 89 (*Rheocricotopus*). Type-locality: [Canada] "small mountain stream, . . . Marion Lake, University of British Columbia Forestry Farm, Haney, B.C." [B.C. = British Columbia]. — Distr.: **NE**: Canada (Alberta, British Columbia), U.S.A. (North Carolina); **PA**: Russia (Far East).

reduncus SÆTHER & SCHNELL, 1988: *Spixiana Supplement* **14**: 66 (*Rheocricotopus* (*Rheocricotopus*)). Type-locality: "Viva, Jostedøla River at inlet to small lake, Luster, Sogn & Fjordane, Norway". — Distr.: **PA**: Finland, Norway, Russia (Far East).

shofukusecundus SASA, 1998: *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 30 (*Rheocricotopus*). Type-locality: {Japan} [Abstract, p. 14] "in the Shofuku Garden, . . . about 1 km from the mouth of Kurobe River". — Distr.: **PA**: Japan.

tamahumeralis SASA, 1981: *Research Report from the National Institute for Environmental Studies* **29**: 92 (*Rheocricotopus*). Type-locality: {Japan, Tama River} "Station No. 2 of Minamiasakawa River". — Distr.: **PA**: Japan.

tatequintus SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 32 (*Rheocricotopus*). Type-locality: [Japan] [p. 31] "on the slope of Mount Tate". — Distr.: **PA**: Japan.

tedorisecundus (SASA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 51 (*Pseudosmittia*). Type-locality: {Japan} [p. 50] "on the shore of Lake Tedori at Shiramine". — Distr.: **PA**: Japan.

tibialis WANG & ZHENG, 1991: *Acta Zootaxonomica Sinica* **16**(1): 99 (*Rheocricotopus*). Type-locality: [p. 104, English Summary] {China} "Sichuan Province (Mt. Jinfo, 29.0°N, 107.1°E, 1800 m.)". — Distr.: **OR**: China (Sichuan).

togapeniculus SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 104 (*Rheocricotopus* (*Rheocricotopus*)). Type-locality: [Japan] [Introduction, p. 92] "Toga-mura . . .

in the southern mountainous part of Toyama Prefecture"; [p. 104] "Toga River". — Distr.: **PA**: Japan.

togapeniculus SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Rheocricotopus*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

tshernovskii MAKARCHENKO & MAKARCHENKO, 2005: *Evraziatskii Entomologicheskii Zhurnal* **4**(2): 134 (*Rheocricotopus* (*Rheocricotopus*)). Type-locality: {Russia, Far East} **OSTROV SAKHALIN: Noglikskii r-n, bassein r. Chamgu (vostochnoe poberzh′e), za Chamginskii perevalom, ruchei Khrebtovyi, okolo 743 m n.u.m** [= Sakhalin Island, Nogliksky District, basin of the River Chamgu (eastern seacoast), behind Chamginskii mountain pass, Khrebtovyi stream, about 743 metres above sea-level]. — Distr.: **PA**: Russia (Far East).

tuberculatus CALDWELL, 1984: *Georgia Journal of Science* **42**: 84 (*Rheocricotopus*). Type-locality: [U.S.A.] "Rockdale County, Georgia, Millrock Branch at Haralson Mill Road 83° 57' 24" N, 30° 45' 41" W". — Distr.: **NE**: Canada (Ontario), U.S.A. (Florida, Georgia, North Carolina, South Carolina, Tennessee).

unidentatus SÆTHER & SCHNELL, 1988: *Spixiana Supplement* **14**: 68 (*Rheocricotopus* (*Rheocricotopus*)). Type-locality: "spring stream, Camp Lazarus, Delaware Co., Ohio, U. S. A.". — Distr.: **NE**: Canada (Ontario), U.S.A. (North Carolina, Ohio).

yakulemeus SASA & SUZUKI, 2000: *Tropical Medicine* **42**(2): 69 (*Rheocricotopus*). Type-locality: {Yakushima Island, Southwestern Japan} "Nagata". — Distr.: **PA**: Japan.

Subgenerically unplaced species of RHEOCRICOTOPUS

sp.: ROBACK & COFFMAN, 1983: *Proceedings of the Academy of Natural Sciences of Philadelphia* **135**: 40 (*Rheocricotopus*). Localities: "PERU: BP 22a . . . BP 22b . . . BP 22c" [= Small springs just below Hotel Tourista at Machupicchu . . . A—alt. 2200 m, B—alt. 2200 m, C—alt. 2000 m]. — Distr.: **NT**: Peru. [**Note**]

sp.: COFFMAN, YURASITS & DE LA ROSA, 1988: *Spixiana Supplement* **14**: 85 (*Rheocricotopus*). Locality: "South India". — Distr.: **OR**: India (Kerala or Tamil Nadu).

sp.: CRANSTON, OLIVER & SÆTHER, 1989: *Entomologica Scandinavica Supplement* **34**: 235 (*Rheocricotopus*). Locality: "Puerto Rico". — Distr.: **NT**: Puerto Rico.

sp.: OSPINA-TORRES, RISS & RUIZ, 1999: *Insectos de Colombia* II: 376, 380 (*Rheocricotopus*). Locality: {Colombia} "Sabana de Bogotá". — Distr.: **NT**: Colombia.

sp. 1: HAASE & NOLTE, 2008: *Ecological Indicators* **8**(5): 607 (*Rheocricotopus*). Locality: [Title] "streams in southeast Queensland, Australia". — Distr.: **AU**: Australia (Queensland).

Nomina dubia in RHEOCRICOTOPUS

barbatus (CÎNDEA, 1954): *Buletin Ştiinţific Academia Republicii Populare Române* **6**(1): 309 (*Orthocladius*). Type-localities: {Romîne} [= Romania] "în bazinul Bistriţa în patru puncte (Bistricioara-aval Grinţieşul Mare" [= in the Bistriţa basin in four locations (Bistricioara-aval Grinţieşul Mare]; "Bistricioara-aval Putna"; "Borsec"; "Grinţieşul Mare"; "în două locuri în Munţii Apuseni (Pîrîul Disghita, afluent al Arieşului Mare" [= in two places in the Apuseni Mountains (Disghita brook, a tributary of Arieşului Mare]; "Izvorul Iarba Rea"; "în pîrîul Repede ce se varsă în Siret la nord de Bacău" [= in the fast flowing brook in Siret north of Bacău].

Unavailable names in RHEOCRICOTOPUS

togadentatus SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Rheocricotopus*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togaparvulus SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Rheocricotopus*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

uresiovatus SASA, 1989: *Research Report Toyama Prefectural Environmental Pollution Research Center* **1989**: 76, 83 (*Rheocricotopus*). Locality: {Japan} [p. 75] "Ureshino River, Saga". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

Genus **RHEOSMITTIA** BRUNDIN

RHEOSMITTIA BRUNDIN in CRANSTON & SÆTHER, 1986: *Journal of Natural History* **20**(1): 33. Type-species: *Parakiefferiella* (*Rheosmittia*) *spinicornis* Brundin, 1956, by original designation.

RHEOSMITTIA BRUNDIN, 1956: *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 150 (as subgenus of *Parakiefferiella* Thienemann, 1936). Type-species: Not given. Name not made available - not accompanied by the fixation of a type-species contrary to Article 13.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum.**

TSHERNOVSKIELLA ZVEREVA, 1950: *Entomologicheskoe Obozrenie* **31**(1/2): 272. Type-

species: Not given. Name not made available - not accompanied by fixation of a type-species contrary to Article 13.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**. Synonymized with *Rheosmittia* Brundin, 1986, by Cranston, Oliver & Sæther (1983: *Entomologica Scandinavica Supplement* **19**: 195). [**Note**]

TSCHERNOVSKIELLA: incorrect subsequent spelling.

arcuata CALDWELL, 1996: *Hydrobiologia* **328**(1): 1 (*Rheosmittia*). Type-locality: [U.S.A.] "Stephens Co., Georgia, Eastanollee Creek, Georgia Hwy. 17". — Distr.: **NE**: U.S.A. (Georgia, North Carolina, South Carolina); **PA**: Russia (Far East).

hamulata CASPERS & REISS, 1989: *Entomofauna* **10**(8): 142 (*Rheosmittia*). Type-locality: "Ovit-Pass S Ikizdere, 1500 m über NN (Provinz Rize, Nordosttürkei)" [= Ovit Pass south of Ikizdere, 1500 metres above sea-level (Rize Province, north-east Turkey)]. — Distr.: **PA**: Turkey.

languida (BRUNDIN, 1956): *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 156 (*Parakiefferiella* (*Rheosmittia*)). Type-locality: "Norwegen, Jotunheimen: . . . im Hochbirgsflusss Leirungsaae bei Gjendesheim, 1120 m" [= Norway, Jotunheimen: . . . in the high mountain river Leirungsaae near Gjendesheim, 1120 metres] [Lectotype designated in Cranston & Sæther, 1986: *Journal of Natural History* **20**(1): 45, "Norway, Jotunheimen, Gjendesheim, the river Leirungså, elevation 1120m"]. — Distr.: **PA**: Finland, France, Germany, Norway, Poland, Romania, Russia (NET, East Siberia, Far East), Slovakia.

spinicornis (BRUNDIN, 1956): *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 154 (*Parakiefferiella* (*Rheosmittia*)). Type-locality: "Schweden, Schonen: . . . im Värke-Fluss bei Brösarp" [= Sweden, Skåne: . . . in the River Värke at Brösarp] [Lectotype designated in Cranston & Sæther, 1986: *Journal of Natural History* **20**(1): 40, "Sweden, Skåne, River Värke at Brösarp"]. — Distr.: **PA**: Austria, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Mongolia, Norway, Romania, Russia (East Siberia, Far East), Slovakia, Spain, Sweden, Tunisia, Turkey.

yakytriangulata (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(2): 89 (*Parakiefferiella*). Type-locality: {Yakushima Island, Southwestern Japan} "Yakusugi Land". — Distr.: **PA**: Japan. [**Note**]

sp.: CRANSTON & SÆTHER, 1986: *Journal of Natural History* **20**(1): 50 (*Rheosmittia*). Locality: "China (Jilin Province, Erdaobaine, near Songjiang)". — Distr.: **PA**: China (Jilin).

sp.: CRANSTON & SÆTHER, 1986: *Journal of Natural History* **20**(1): 50 (*Rheosmittia*). Locality: "southern India". — Distr.: **OR**: India.

sp.: COFFMAN, YURASITS & DE LA ROSA, 1988: *Spixiana Supplement* **14**: 85 (*Rheosmittia*). Locality: "South India". — Distr.: **OR**: India (Kerala or Tamil Nadu).

sp.: OLIVER, DILLON & CRANSTON, 1990: *Agriculture Canada,* Publication **1857/B**: 37 (*Rheosmittia*). Locality: "Widespread NE" [= widespread in Nearctic Region]. — Distr.: **NE**: Canada (Alberta, Yukon Territory), U.S.A. (Florida, Kansas, Montana, Washington).

Unavailable names in RHEOSMITTIA

ardica (DIMITROV, 1963): *Izvestiya na opitnata Stantsiya po sladkovodno Ribarstvo Plovdiv* **2**: 14 (as "Orthocladiinae gen. ? 1."). Locality: {Bulgaria} **v r. Arda pri s. Smilyan, Smolyansko** [= in the River Arda near the village of Smilyan, Smolyan]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**. .

delicatula (BOTNARIUC & CURE, 1956): *Analele Institutului de Cercetari Piscicole al Romaniei* **17**: 264 (as "Orthocladiinae gen? 1."). Localities: {Romîne} [= Romania] "în apa potabilă din rețeaua de conducte din Bucureşti" [= in the drinking water pipeline network in Bucharest]; "în rîul Cerna, la 1 km amonte de Hunedoara" [= in the River Cerna, 1 kilometre upstream of Hunedoara]; "pîrăul Gotul, afluent Sebeşului" [= Gotul stream, tributary of the River Sebeş]. Name

not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**.

Genus **RHINOCLADIUS** EDWARDS

RHINOCLADIUS EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 268. Type-species: *Rhinocladius culicinus* Edwards, 1931, by original designation.

culicinus EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 271 (*Rhinocladius*). Type-locality: [Argentina] "L. Correntoso". — Distr.: **NT**: Argentina, Chile.

longirostris EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 270 (*Rhinocladius*). Type-locality: [Chile] "Casa Pangue". — Distr.: **NT**: Chile.

tonnoiri FREEMAN, 1961: *Australian Journal of Zoology* **9**(4): 662 (*Rhinocladius*). Type-locality: {Australia} "Mt. Wellington, Tas. [Tas. = Tasmania]. — Distr.: **AU**: Australia (Tasmania, Victoria).

Genus **SAETHERIELLA** HALVORSEN

SAETHERIELLA HALVORSEN, 1982: *Aquatic Insects* **4**(3): 132. Type-species: *Saetheriella amplicristata* Halvorsen, 1982, by original designation.

amplicristata HALVORSEN, 1982: *Aquatic Insects* **4**(3): 133 (*Saetheriella*). Type-locality: "spring on Rt. 441, 12 miles southeast of Gatlinburg, Sevier Co., Tennessee, U.S.A.". — Distr.: **NE**: U.S.A. (Tennessee).

Genus **SAETHEROCLADIUS** ANDERSEN & MENDES

SAETHEROCLADIUS ANDERSEN & MENDES, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 48. Type-species: *Saetherocladius hirtus* Andersen & Mendes, 2007, by original designation.

fuscus ANDERSEN, MENDES & PINHO, 2010: *Zootaxa* **2608**: 47 (*Saetherocladius*). Type-locality: "Brazil: Santa Catarina State, Urubici, Morro da Igreja, 1.822 m a.s.l.". — Distr. **NT**: Brazil.

fusticulus ANDERSEN, MENDES & PINHO, 2010: *Zootaxa* **2608**: 49 (*Saetherocladius*). Type-locality: "Brazil: São Paulo State, Parque Estadual Intervales, Ribeirão Grande, Barra Grande, 24°15'S, 48°10'W". — Distr. **NT**: Brazil.

hirtus ANDERSEN & MENDES, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 48 (*Saetherocladius*). Type-locality: "BRAZIL: São Paulo State, Parque Estadual de Pincinguaba, Ubatuba, 23°20'15" S 44°50'14" W, near small forest stream". — Distr. **NT**: Brazil.

triangulatus ANDERSEN, MENDES & PINHO, 2010: *Zootaxa* **2608**: 51 (*Saetherocladius*). Type-locality: "Brazil: São Paulo State, Parque Estadual Intervales, Ribeirão Grande, Barra Grande". — Distr. **NT**: Brazil.

urubiciensis ANDERSEN, MENDES & PINHO, 2010: *Zootaxa* **2608**: 53 (*Saetherocladius*). Type-locality: "Brazil: Santa Catarina State, Urubici, Morro da Igreja, 1.822 m a.s.l.". — Distr. **NT**: Brazil.

Genus **SAETHEROCRYPTUS** ANDERSEN & MENDES, 2007

SAETHEROCRYPTUS ANDERSEN & MENDES, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 33. Type-species: *Saetherocryptus clavatus* Andersen & Mendes, 2007, by original designation.

clavatus ANDERSEN & MENDES, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 35 (*Saetherocryptus*). Type-locality: "BRAZIL: São Paulo State, Parque Estadual Intervales (PEI), Gruta, Barra Bonita, canopy, 24°32' S 48°42' W, 260 m a.s.l.". — Distr. **NT**: Brazil.

temimino ANDERSEN, MENDES & PINHO, 2012: *Biota Neotropica* **11**(4): 74 (*Saetherocryptus*). Type-locality: "Brazil, São Paulo State, Salesópolis, Estação Biológica Boracéia, córrego Coruja". — Distr.: **NT**: Brazil.

Genus **SAETHEROLABIS** ANDERSEN & MENDES

SAETHEROLABIS ANDERSEN & MENDES, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 40. Type-species: *Saetherolabis pectinata* Andersen &

Mendes, 2007, by original designation.

iperuype ANDERSEN, MENDES & PINHO, 2012: *Zootaxa* **3300**: 63 (*Saetherolabis*). Type-locality: "BRAZIL, São Paulo State, Peruibe, Estação Ecológica Juréia-Itatins, 24°31'06"S 47°12'06"W". — Distr.: **NT**: Brazil.

pectinata ANDERSEN & MENDES, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 43 (*Saetherolabis*). Type-locality: "BRAZIL: Amazonas State, Manaus . . . 2°25' S 60° W, 80-110 m a.s.l.". — Distr. **NT**: Brazil.

siriype ANDERSEN, MENDES & PINHO, 2012: *Zootaxa* **3300**: 65 (*Saetherolabis*). Type-locality: "BRAZIL, Sergipe State, Areia Branca, Serra Itabaiana, riacho Coqueiro". — Distr.: **NT**: Brazil.

Genus **SAETHEROPS** ANDERSEN & MENDES

SAETHEROPS ANDERSEN & MENDES, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 37. Type-species: *Saetherops bidentata* Andersen & Mendes, 2007, by original designation.

bidentata ANDERSEN & MENDES, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 39 (*Saetherops*). Type-locality: "BRAZIL: Amazonas State, Manaus . . . 2°25' S 60° W, 80-110 m a.s.l.". — Distr. **NT**: Brazil.

Genus **SASACRICOTOPUS** KOBAYASHI & SÆTHER

SASACRICOTOPUS KOBAYASHI & SÆTHER, 1999: *Acta Zoologica Academiae Scientiarum Hungaricae* **45**(2): 155. Type-species: *Nanocladius jintusecundus* Sasa, 1990, by original designation.

jintusecundus (SASA, 1990): *Research Report Toyama Prefectural Environmental Pollution Research Center* **1990**: 37 (*Nanocladius*). Type-locality: {Japan, Toyama, Jintsu River} "at No.8, Jintsu-Ouhashi, Toyama-shi". — Distr.: **PA**: Japan, Russia (Far East).

Genus **SEMIOCLADIUS** SUBLETTE & WIRTH

SEMIOCLADIUS SUBLETTE & WIRTH, 1980: *New Zealand Journal of Zoology* **7**: 318. Type-species: *Camptocladius crassipennis* Skuse, 1889, by original designation.

HAHAYUSURIKA SASA & SUZUKI, 1997: *Medical Entomology and Zoology* **48**(4): 332. Type-species: *Hahayusurika ogasaundecima* Sasa & Suzuki, 1997 [= *Spaniotoma* (*Smittia*) *endocladiae* Tokunaga, 1936], by original designation. Synonymized with *Semiocladius* Sublette & Wirth, 1980, by Yamamoto (2004: *Makunagi* **21**: 95).

brevicornis (TOKUNAGA, 1964): *Insects of Micronesia* **12**(5): 518 (*Smittia*). Type-locality: [Belau] "Angaur I., Palau". — Distr.: **AF**: Seychelles; **AU**: Belau; **OC**: Federated States of Micronesia Micronesia.

crassipennis (SKUSE, 1889): *Proceedings of the Linnaean Society of New South Wales* (2) **4**: 264 (*Camptocladius*). Type-locality: {Australia} "Rodd Island, Port Jackson". — Distr.: **AU**: Australia (Lord Howe Island, New South Wales).

endocladiae (TOKUNAGA, 1936): *Philippine Journal of Science* **60**(3): 312 (*Spaniotoma* (*Smittia*); as "*endocladiæ*"). Type-locality: "Japan . . . Seto, Wakayama Prefecture". — Distr.: **PA**: China (Shandong), Japan; **OC**: Bonin Islands.

ogasaundecimus (SASA & SUZUKI, 1997): *Medical Entomology and Zoology* **48**(4): 332 (*Hahayusurika*). Type-locality: {Japan, Ogasawara Islands} "Hahajima".

kuscheli SUBLETTE & WIRTH, 1980: *New Zealand Journal of Zoology* **7**: 319 (*Semiocladius*). Type-locality: {New Zealand} "Aukland Is, Adams I., Fairchild's Garden". — Distr.: **AU**: New Zealand (Antipodes Islands, Auckland Islands, Campbell Island).

reinga (LEADER, 1975): *New Zealand Journal of Zoology* **2**(2): 211 (*Smittia*). Type-locality: {New Zealand} "Coopers Beach, Mangonui, Auckland Prov.". — Distr.: **AU**: New Zealand (North Island).

whangaroa (LEADER, 1975): *New Zealand Journal of Zoology* **2**(2): 213 (*Smittia*). Type-locality: [Introduction] "seashore of New Zealand". — Distr.: **AU**: New Zealand (North Island). [**Note**]

Genus **SMITTIA** HOLMGREN

SMITTIA HOLMGREN, 1869: *Kungliga Svenska VetenskapsAkademiens Handlingar* **8**(5): 47. Type-species: *Chironomus brevipennis* Boheman, 1865, by monotypy.

PHAENOCLADIUS KIEFFER in THIENEMANN, 1921: *Archiv für Hydrobiologie Supplement* **2**(4): 845. Type-species: *Phaenocladius foliatus* (Kieffer, 1906) sensu Kieffer in Thienemann (1921) [= *Smittia aterrima* (Meigen, 1818)], by original designation, a misidentification of *Camptocladius foliatus* Kieffer, 1906; the taxonomic species involved in the misidentification is selected as type species here in accordance with ICZN (1999) Code Art. 70.3. Synonymized with *Smittia* Holmgren, 1869, by Goetghebuer (1932: *Faune de France* **23**: 114). [**Note**]

EUPHAENOCLADIUS THIENEMANN, 1934: *Encyclopédie Entomologique, B-II, Diptera* **7**: 31. Type-species: *Euphaenocladius foliatus* (Kieffer, 1906) sensu Thienemann (1934) [= *Smittia aterrima* (Meigen, 1818)], by original designation, a misidentification of *Camptocladius foliatus* Kieffer, 1906; the taxonomic species involved in the misidentification is selected as type species here in accordance with ICZN (1999) Code Art. 70.3. Objective, permanent junior synonym of *Phaenocladius* Kieffer, 1921 due to identical type species. Synonymized with *Smittia* Holmgren, 1869, by Brundin (1956: *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 146). [**Note**]

abiskoensis GOETGHEBUER, 1940: *Bulletin et Annales de la Société Entomologique de Belgique* **80**(1): 65 (*Smittia*). Type-locality: [Introduction, p. 55] "aux environs d'Abisko, en Laponie Suédoise" [= in the vicinity of Abisko, in Swedish Lapland]; [p. 66] "près d'un étang" [= near a pond]. — Distr.: **PA**: Sweden.

abruzzae ROSSARO & LENCIONI, 2000: *Bollettino di Zoologia Agraria e Bachicoltura,* (Ser. II) **32**(2): 100 (*Smittia*). Type-locality: [Italy], "a spring near Pescasseroli, P. N. Abruzzi". — Distr.: **PA**: **?**Finland, Italy.

admiranda MAKARCHENKO & MAKARCHENKO, 2003: *Chteniya Pamyati Vladimira Yakovlevicha Levanidova* **2**: 215 (*Smittia*). Type-locality: {Russian Far East} **Primorskii kr., Khasanskii r-n, zapovednik "Kedrovaya pad' ", r. Kedrovaya v

r-ne usad′by** [= Primorsky Krai, Khasansky District, "Kedrovaya pad′ " Nature Reserve, River Kedrovaya in the region of the farm]. — Distr.: **PA**: Russia (Far East).

akanduodecima SASA & KAMIMURA, 1987: *Research Report from the National Institute for Environmental Studies* **104**: 42 (*Smittia*). Type-locality: {Akan National Park, Hokkaido, Japan} "shore of Lake Panke". — Distr.: **PA**: Japan, Russia (NET, Far East).

alpicola GOETGHEBUER, 1941: *Bulletin du Musée Royal d'Histoire Naturelle de Belgique* **17**(37): 5 (*Smittia*). Type-locality: [Austria] "Alpes tyroliennes" [= Tyrolean Alps]. — Distr.: **PA**: Austria, France, Germany, Italy.

alpilonga ROSSARO & LENCIONI, 2000: *Bollettino di Zoologia Agraria e Bachicoltura,* (Serie II) **32**(2): 102 (*Smittia*). Type-locality: [Italy] "Veny valley, st. 2 near Rifugio Elisabetta, Estellette glacial stream, Mont Blanc". — Distr.: **PA**: Austria, Italy.

amoena CASPERS, 1988: *Spixiana Supplement* **14**: 179 (*Smittia*). Type-locality: [Germany] "Kiesbänke in der Flußaue der Donau bei Gerolfing (Nähe Ingolstadt, Bundesrepublik Deutschland)" [= gravel bars in the floodplain of the Danube at Gerolfing (near Ingolstadt, Federal Republic of Germany)]. — Distr.: **PA**: Germany, Great Britain, Ireland, **?**Italy.

antelobata ALBU, 1970: *Studii şi Cercetări de Biologie, Série de Zoologie* **22**(2): 101 (*Smittia*). Type-localities: [Romania] "Cazanele Mici"; "Şepilea, valea Cernei" [=Şepilea, Cernei Valley]. — Distr.: **PA**: Romania.

arctica MALLOCH, 1923: *North American Fauna* **46**: 175 (*Smittia*). Type-locality: [U.S.A.] {Alaska} "St. Paul Island". — Distr.: **NE**: U.S.A. (Alaska).

aterrima (MEIGEN, 1818): *Systematische Beschreibung* **1**: 47 (*Chironomus*). Type-locality: [Title] "europäischen" [= European]. — Distr.: **NE**: Canada (Northwest Territories, Ontario), Greenland, U.S.A. (Arkansas, Florida, Illinois, Kentucky, Michigan, Mississippi, New Jersey, New Mexico, New York, North Carolina, South Carolina); **PA**: Austria, Azores, Belgium, Bosnia and Herzegovina,

Bulgaria, Canary Islands, Croatia, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Great Britain, Hungary, Iceland, Ireland, Italy, Japan, Latvia, Madeira, Mongolia, Netherlands, Norway, Poland, Romania, Russia (CET, NET, East Siberia, Far East), Spain, Sweden, Switzerland, Ukraine; **OR**: China (Fujian, Zhejiang), India (West Bengal); **AU**: Australia (Australian Capital Territory, New South Wales, Queensland, Tasmania, Victoria, Western Australia).

opaca (MEIGEN, 1830): *Systematische Beschreibung* **6**: 249 (*Chironomus*). Type-locality: [Title] "europäischen" [= European].

nigrata (WALKER, 1856): *Insecta Britannica Diptera* **3**: 184 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England].

macleayi (SKUSE, 1889): *Proceedings of the Linnaean Society of New South Wales* (2) **4**: 266 (*Camptocladius*; as "*Macleayi*"). Type-localities: {Australia} "Sydney and other localities in N.S.W." [N.S.W. = New South Wales].

kisonudianalis SASA & KONDO, 1993: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1993**: 102 (*Smittia*). Type-locality: [Japan] [p. 98] "AT BISAI ON THE SIDE OF KISO RIVER".

uresiefea SASA & SUZUKI, 1998: *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 84 (*Smittia*). Type-locality: [Japan] [p. 78] "at Ureshino, Saga . . . at the side of the stream running through the hot spring town of Ureshino"; [p. 84] "at Ureshino".

yakyquerea SASA & SUZUKI, 2000: *Tropical Medicine* **42**(2): 97 (*Smittia*). Type-locality: {Yakushima Island, Southwestern Japan} "Yakusugi Land".

sunababecea TANAKA & SASA, 2001: *Tropical Medicine* **43**(1/2): 44 (*Smittia*). Type-locality: [Introduction, p. 39] "Japan . . . Kurobe River"; [Title, p. 39] "Sunaba".

? *sinuosus* (KIEFFER, 1911): *Bulletin de la Société Entomologique de France* **1911**: 185 (*Trichocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖ ► Type-locality: [Germany, Westphalia] "in der Kleinbahn Haspe-

Breckerfeld" [= in the narrow-gauge Haspe-Breckerfeld railway] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 76◄ ‖. **Questionable synonym**.

atra FREEMAN, 1954: *Proceedings of the Royal Entomological Society* (B) **23**(9/10): 175 (*Smittia*). Type-locality: [South Africa] "Berg River, Cecilia's Drift". — Distr.: **AF**: D.R.Congo, Ethiopia, South Africa, Uganda.

avicorneata CHAUDHURI & BHATTACHARYAY, 1989: *Deutsche Entomologische Zeitschrift* (Neue Folge) **36**(4/5): 414 (*Smittia*). Type-locality: {India} "West Bengal, Darjeeling". — Distr.: **OR**: India (West Bengal).

betuletorum EDWARDS in THIENEMANN, 1941: *Archiv für Hydrobiologie Supplement* **17**(1/2): 226 (*Smittia*). Type-locality: {Schwedisch-Lappland} [p. 226] "*Boreochlus*-Quelle bei Abisko" [= *Boreochlus* spring near Abisko]; [p. 227] "Abisko . . . Flying near spring in birch wood". — Distr.: **PA**: Finland, France, Romania, Sweden.

brevipennis (BOHEMAN, 1865): *Öfversigt af Kongl. Vetenskaps-Akademiens Förhandlingar* **22**: 575 (*Chironomus*). Type-locality: [Norway] {Spetsbergen} "Whales Point in Storfjorden" [Spetsbergen = Spitzbergen]. — Distr.: **PA**: Russia (East Siberia), Spitzbergen. [**Note**]

capensis (KIEFFER, 1914): *Annals of the South African Museum* **10**: 261 (*Camptocladius*). Type-locality: {South Africa} "Cape Town". — Distr.: **AF**: South Africa.

celtica ROSSARO & DELETTRE, 1992: *Annales de la Société Entomologique de France,* (N. S.) **28**(4): 365 (*Smittia*). Type-locality: "Paimpont district (Brittany, France)". — Distr.: **PA**: France.

contingens (WALKER, 1856): *Insecta Britannica Diptera* **3**: 191 (*Chironomus*). Type-locality: [Great Britain] "(E.)" [= England]. — Distr.: **PA**: Austria, Azores, **?**Belgium, Bulgaria, Estonia, France, Germany, Great Britain, Hungary, Ireland, **?**Lebanon, Netherlands, Poland, Romania, Russia (CET, **?**East Siberia, Far East), Slovakia, Spain, Spitzbergen, ¶Yugoslavia.

? *aquatica* (KIEFFER, 1911): *Bulletin de la Société Entomologique de France* **1911**:

184 (*Camptocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖ ► Type-locality: [Germany] "auf der Oberfläche der Heilenbecketalsperre" [= on the surface of the Heilenbecke Dam] in Thienemann, 1911: *Landwirtschaftliche Jahrbücher* **41**: 638 ◄ ‖. **Questionable synonym**.

? *aquatilis* (GOETGHEBUER, 1921): *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 88 (*Camptocladius*). Type-localities: {Belgique} [p. 189] "Les Flandres" [= Flanders]; "forêt de Soignes (M. B.)" [= forest of Soignes (Moyenne Belgique)], [Belgique = Belgium]. **Questionable synonym**. **[Note]**

controversa MAKARCHENKO & MAKARCHENKO, 2005: *Chteniya Pamyati Vladimira Yakovlevicha Levanidova* **3**: 380 (*Smittia*). Type-locality: {Russian Far East, South part of Primorye Territory} **Okhotomorskoe poberezh'e Magadanskoi obl., Tauiskaya guba, r. Chelomdzha** [= Okhotomorskoe seacoast Magadan Oblast, Tauiskaya Bay, River Chelomdzha]. — Distr.: **PA**: Russia (Far East).

crassicollis (WALKER, 1848): *List of the Specimens of Dipterous Insects*: 18 (*Chironomus*). Type-locality: [Canada, Ontario] "St. Martin's Falls, Albany River, Hudson's Bay". — Distr.: **NE**: Canada (Ontario).

duplicata STRENZKE, 1951: *Archiv für Hydrobiologie Supplement* **18**(4): 684 (*Smittia*). Type-locality: [Introduction, p. 678] "bulgarischen Küste des Schwarzen Meeres" [= Bulgarian coast of the Black Sea], [p. 684] "Varna, . . . im unmittelbar am Meer gelegenen Institut" [= Varna, . . . located directly at the institute by the sea]. — Distr.: **PA**: Bulgaria.

duplicata STRENZKE in CASPERS, 1951: *Hydrobiologia* **3**(2): 155 (*Smittia*). Locality: [Title, p. 131] "bulgarischen Küstenbereich des Schwarzen Meeres" [= Bulgarian coastal zone of the Black Sea], [p. 155] "Varna". Name not made available – not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

durandae MOUBAYED, 1989: *Hydrobiologia* **185**(2): 93 (*Smittia*). Type-locality: "Yammouneh stream (affluent of Orontes river), Lebanon, rhithral, alt. 1330

m". — Distr.: **PA**: Lebanon.

edwardsi GOETGHEBUER, 1932: *Faune de France* **23**: 123 (*Smittia* (*Smittia*); based on a described unnamed species in Edwards (1929) on p. 361). Type-locality: [Great Britain] "Angleterre" [= England] ‖ ▶Type-localities: [Great Britain] "Correin Lochan, Arran"; "Cambridge" in Edwards, 1929: *Transactions of the Entomological Society of London* **77**: 361, in *Smittia* (*Smittia*) as "**S. (S.)** sp. inc. Dull black, . . . "◀‖. — Distr.: **NE**: U.S.A. (New Mexico); **PA**: Austria, Belarus, Finland, Germany, Great Britain, Ireland, Italy, Netherlands, Norway, Poland, Russia (CET, NET, East Siberia), Slovakia, Sweden.

extrema (HOLMGREN, 1869): *Kungliga Svenska VetenskapsAkademiens Handlingar* **8**(5): 40 (*Chironomus*). Type-localities: [Norway] "Hab. in Spetsbergia ad Whales Point" [= Dwells in Spitzbergen, at Whales Point]; "Nordkap"; "Brandewijnebay". — Distr.: **NE**: Canada ($Northwest Territories), Greenland; **PA**: ?Jan Mayen Island, Spitzbergen, Russia (NET, East Siberia, Far East).

polaris (KIEFFER in KIEFFER & THIENEMANN, 1919): *Entomologische Mitteilungen* **8**: 112 (*Trichocladius*; as var. of *curvinervis* Kieffer, 1911). Type-locality: "Spitzbergen: Croßbai, Ebelthofhafen, Süßwassertümpel" [= Spitzbergen: Cross Bay, Ebelthof Harbour, freshwater pool].

? *incerta* (BECHER, 1886): *Beobachtungs-Ergebnisse / Die Internationale Polarforschung, 1882-1883,* **3**: 63 (*Chironomus*). Type-locality: [Title] [Norway] "Jan Mayen" [= Jan Mayen Island]. **Preoccupied**. Junior primary homonym of *Chironomus incertus* Walker, 1856 which is a questionable synonym of *Cryptotendipes pseudotener* (Goetghebuer, 1922). [**Note**]

fletcheri FREEMAN, 1956: *Bulletin of the British Museum (Natural History)* Entomology **4**(7): 348 (*Smittia*). Type-locality: "UGANDA: Ruwenzori Range, Mahoma River, 6,700 ft.". — Distr.: **AF**: Uganda.

flexinervis (KIEFFER in KIEFFER & LUNDBECK, 1911): *Avifauna Spitzbergensis*: 272 (*Trichocladius*; as "*Thrichocladius*"). Type-locality: [Norway] "Bären-Insel, Kap Ruth" [= Bear Island, Cape Ruth]. — Distr.: **PA**: Bear Island, Estonia,

Spitzbergen.

longicosta (EDWARDS, 1922): *Annals and Magazine of Natural History* (9) **10**: 201 (*Camptocladius*). Type-locality: [Norway] "Bear Island: Walrus Bay, S.E. of island . . . c. 20-50 ft.".

foliosa (KIEFFER in THIENEMANN, 1921): *Archiv für Hydrobiologie Supplement* **2**(4): 845 (*Phaenocladius*; as nom. nov. for *Trichocladius foliatus* Kieffer, 1921 nec *Camptocladius foliatus* Kieffer, 1906 when both in *Phaenocladius* Kieffer, 1921). — Distr.: **PA**: Belgium, **?**Estonia, Finland, France, Germany, Great Britain, Italy, Kaliningrad, Lebanon, Netherlands, Ukraine. [**Note**]

foliata (KIEFFER, 1921): *Archiv für Hydrobiologie Supplement* **2**(4): 799 (*Trichocladius*). Type-locality: [Germany] "Eifel". **Preoccupied**. Junior secondary homonym of *Camptocladius foliatus* Kieffer, 1906 when both in *Phaenocladius* or *Smittia* (*C. foliatus* Kieffer, 1906 is now a nomen dubium in *Smittia*; see there).

gunmaquinta SASA & TANAKA, 1998: *Annual Report of the Gunma Prefecture Institute of Public Health and Environmental Science* **30**: 42 (*Smittia*). Type-locality: {Japan} "at the side of the Kiryu River". — Distr.: **PA**: Japan.

gusukuensis SASA & HASEGAWA, 1988: *Japanese Journal of Sanitary Zoology* **39**(3): 252 (*Smittia*). Type-locality: {Ryukyu Islands, southern Japan} "Tamagusuku, Okinawa Island". — Distr.: **OR**: Japan (Ryukyu Archipelago).

hidakaijea SASA & SUZUKI, 2001: *Tropical Medicine* **42**(3/4): 191 (*Smittia*). Type-locality: {Hokkaido, Japan} [p. 178] "in the Hidaka Mountain areas"; [p. 191] "Shizunai River". — Distr.: **PA**: Japan.

indica CHAUDHURI & BHATTACHARYAY, 1989: *Deutsche Entomologische Zeitschrift* (Neue Folge) **36**(4/5): 415 (*Smittia*). Type-locality: {India} "West Bengal, Darjeeling". — Distr.: **OR**: India (West Bengal).

insignis BRUNDIN, 1947: *Arkiv för Zoologi* **39A**: 45 (*Smittia*). Type-locality: {Sweden} "Jmtl. St. Blåsjön . . . am Seeufer in der Nähe der Mündung des Södra älven" [= Jämtland, Stora Blåsjön . . . on the lake shore near the mouth of the Södra

River]. — Distr.: **PA**: Japan, Russia (Far East), Sweden.

hakusansecunda SASA & OKAZAWA, 1994: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 69 (*Smittia*). Type-locality: [Japan] [p. 68] "at a site of about 2,000 m high from sea level on the slope of Mount Hakusan (Ishikawa)".

uresideea SASA & SUZUKI, 1998: *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 83 (*Smittia*). Type-locality: [Japan] [p. 78] "at Ureshino, Saga . . . at the side of the stream running through the hot spring town of Ureshino"; [p. 83] "at Ureshino".

itachipennis SASA & KAWAI, 1987: *Bulletin of the Toyama Science Museum* **10**: 60 (*Smittia*). Type-locality: {Japan, Stream Itachigawa, Toyama} "on the shore of the Itachigawa". — Distr.: **PA**: Japan.

joganbrevicosta SASA & OKAZAWA, 1991: *Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 62 (*Smittia*). Type-locality: {Joganji River, Toyama, Japan} [p. 62] "at St.3" [= "Magawa River" on p. 53]. — Distr.: **PA**: Japan, Russia (Far East).

kisoquadrata SASA & KONDO, 1994: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 134 (*Smittia*). Type-locality: {Japan} "on the shore of the Kiso River at Bisai". — Distr.: **PA**: Japan.

kojimagrandis SASA, 1989: *Research Report from the National Institute for Environmental Studies* **125**: 148 (*Smittia*). Type-locality: {Japan} "on the shore of Lake Kojimako (Okayama)". — Distr.: **PA**: Japan.

kribiensis (KIEFFER, 1923): *Annales de la Société Entomologique de France* **92**: 186 (*Camptocladius*). Type-locality: "Cameroun : Kribi" [Cameroun = Cameroon]. — Distr.: **AF**: Cameroon.

kurobepubeocula (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 69 (*Paralimnophyes*). Type-locality: [Japan] [p. 66] "Kurobe River area", [p. 69] "Aimoto Bridge". — Distr.: **PA**: Japan.

lasiophthalma (MALLOCH, 1915): *Bulletin of the Illinois State Laboratory of Natural History* **10**: 509 (*Camptocladius*). Type-locality: [U.S.A.] "Dubois, Ill." [Ill. = Illinois] [Lectotype designation in Frison, 1927: *Bulletin of the Illinois State Natural History Survey* **16**: 163, [U.S.A.] "Dubois, Illinois, along creek valley"]. — Distr.: **NE**: U.S.A. (Illinois); **PA**: Jan Mayen Island.

lasiopthalma: incorrect subsequent spelling.

lasiops (MALLOCH, 1915): *Bulletin of the Illinois State Laboratory of Natural History* **10**: 508 (*Camptocladius*). Type-locality: Type-locality: [U.S.A.] "Urbana, Ill., . . . near house in city" [Ill. = Illinois] [Lectotype designation in Frison, 1927: *Bulletin of the Illinois State Natural History Survey* **16**: 164, [U.S.A.] "Urbana, Illinois, about garbage near house"]. — Distr.: **NE**: U.S.A. (Florida, Illinois); **PA**: Spitzbergen.

leucopogon (MEIGEN, 1804): *Klassifikazion und Beschreibung der europäischen zweiflügligen insekten* **1**: 17 (*Chironomus*). Type-locality: [Title] "europäischen" [= European]. — Distr.: **PA**: Austria, Belarus, Belgium, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Japan, Lebanon, Lithuania, Mongolia, Netherlands, Norway, Poland, Russia (CET, NET, Far East), Sweden, **?**Switzerland.

longivirga MAKARCHENKO & MAKARCHENKO, 2011: *Evraziatskii Entomologicheskii Zhurnal* **10**(3): 393 (*Smittia*). Type-locality: {Russia} **Khabarovskii kr., Komsomol′skii r-n, r. Él′ban (bass. r. Amur)** [= Khabarovsk Krai, Komsomol′sky District, River Él′ban (basin of the River Amur). — Distr.: **PA**: Russia (Far East).

macrura GOETGHEBUER, 1932: *Faune de France* **23**: 120 (*Smittia* (*Smittia*)). Type-locality: "Belgique" [= Belgium]. — Distr.: **PA**: Belgium, Germany.

maculipennis GOETGHEBUER, 1936: *Revue de Zoologie et de Botanique Africaines* **28**: 492 (*Smittia*). Type-locality: [Democratic Republic of the Congo] "N. Kivu : Kibati". — Distr.: **AF**: D.R.Congo, Ethiopia, Kenya.

mahensis (KIEFFER, 1911): *Transactions of the Linnean Society of London (2nd Series,*

Zoology) **14**: 361 (*Dactylocladius*). Type-locality: "Seychellen. Mahé: Anonyme Island" [Seychellen = Seychelles]. — Distr.: **AF**: Seychelles. [**Note**]

mauiensis (HARDY, 1960): *Insects of Hawaii* **10**: 141 (*Orthocladius* (*Smittia*)). Type-locality: {Hawaiian Islands} "Haleakala, near Puu Nianiau, Maui, 6,200 ft.". — Distr.: **OC**: Hawaiian Islands (Maui Island).

megalochira (KIEFFER, 1911): *Transactions of the Linnean Society of London (2nd Series, Zoology)* **14**: 363 (*Dactylocladius*). Type-locality: "Seychellen. Mahé: scrubby forest vegetation, top of Mount Sebert, 1800 feet or more" [Seychellen = Seychelles]. — Distr.: **AF**: Seychelles.

niitakana (TOKUNAGA, 1939): *Philippine Journal of Science* **69**(3): 312 (*Spaniotoma* (*Smittia*)). Type-locality: [Taiwan] "Mount Niitaka, Formosa". — Distr.: **OR**: Taiwan.

nudipennis (GOETGHEBUER, 1913): *Annales de Biologie Lacustre* **6**(2/3): 166 (*Camptocladius*). Type-locality: {Belgique} "à Gand" [Belgique = Belgium]. — Distr.: **PA**: Belgium, China (Henan, Jilin, Liaoning), Czech Republic, Finland, France, Germany, Great Britain, Ireland, Italy, Japan, Kaliningrad, Lithuania, Madeira, Mongolia, Netherlands, Norway, Poland, Russia (CET, NET, Far East), South Korea, Sweden, Ukraine.

nudipennis: **Not Oriental**.

yakyresea SASA & SUZUKI, 2000: *Tropical Medicine* **42**(2): 97 (*Smittia*). Type-locality: {Yakushima Island, Southwestern Japan} "Yakusugi Land".

paranudipennis BRUNDIN, 1947: *Arkiv för Zoologi* **39A**: 44 (*Smittia*). Type-locality: {Sweden} "Sm. Skärshultsjön" [Sm. = Småland]. — Distr.: **PA**: Austria, Finland, France, Germany, Netherlands, Sweden.

parva (LUNDBECK, 1898): *Videnskabelige Meddelelser fra Dansk Naturhistorisk Forening i Kjøbenhavn* **5**: 275 (*Chironomus*). Type-localities: "Syd- og Nordgrønland: Ivigtut, Holstensborg, Sydostbugten" [= south and north Greenland: Ivigtut, Holstensborg, south-east bay] [Lectotype designated in Oliver, 1970: *Entomologica Scandinavica* **1**(2): 107, "Kangersuak, Greenland"]. — Distr.:

NE: Greenland.

polaris (KIEFFER, 1926): *Norsk Entomologisk Tidsskrift* **2**: 85 (*Camptocladius*). Type-locality: [Canada, Nunavut, Ellesmere Island] "Havnen" [= Harbour Fjord]. — Distr.: **NE**: Canada (Nunavut); **PA**: Novaya Zemlya, Spitzbergen..

polymorpha ANDERSEN, 1937: *Meddelelser om Grønland* **116**(1): 76 (*Smittia*). Type-localities: {Nordost-Grönlands} "Klöftelven"; "Kap Humbolt" [= Cape Humbolt]; "Rundsee, Ellainsel" [= Round Lake, Ella Island]; "Südende von Kongeborgen" [= South end of Kongeborgen]; "Kap Oswald, Ellainsel" [= Cape Oswald, Ella Island]; "Ellainsel" [= Ella Island]; "Westküste von Kongeborgen" [= West coast of Kongeborgen]; "Langsee, Ellainsel" [= Long Lake, Ella Island]; "Narhvalsund" [= Narhval Sound] [Nordost-Grönlands = north-east Greenland]. — Distr.: **NE**: Canada (Northwest Territories, Nunavut), Greenland.

pratorum (GOETGHEBUER, 1927): *Annales de Biologie Lacustre* **15**: 101 (*Camptocladius*). Type-locality: {Belgique} "à Destelbergen" [Belgique = Belgium]. — Distr.: **?NT**: **?**Argentina, **?**Juan Fernández Islands; **NE**: Canada (Manitoba); **PA**: Austria, Belarus, Belgium, Faroe Islands, Finland, France, Germany, Great Britain, Ireland, Italy, Lebanon, Mongolia, Netherlands, Norway, Russia (NET, Far East), Switzerland; **OR**: China (Zhejiang).

reissi ROSSARO & ORENDT, 2001: *Bollettino della Societa Entomologica Italiana* **133**(1): 55 (*Smittia*). Type-locality: "Germany , Bavaria, Grünsee-Alm Quelle (a spring) 1600 m". — Distr.: **PA**: France, Germany, Italy.

retracta FREEMAN, 1961: *Australian Journal of Zoology* **9**(4): 667 (*Smittia*). Type-locality: {Australia} "Narrabeen, N.S.W." [N.S.W. = New South Wales]. — Distr.: **AU**: Australia (New South Wales).

roena ROBACK, 1957: *Proceedings of the Academy of Natural Sciences of Philadelphia* **109**: 16 (*Smittia*). Type-locality: [U.S.A.] "Lemon's Grove, 3 miles south of Kamas, Summit County, Utah". — Distr.: **NE**: U.S.A. (Utah).

rostrata GOETGHEBUER in SCHMÖLZER, 1962: *Mitteilungen aus dem Zoologischen*

Museum in Berlin **38**(2): 214 (*Smittia*). Type-locality: [Austria] "Höhenweg von der Wildseespitze zum Wolfendorn, ca. 2700 m [= High track from the Wildseespitze to Wolfendorn, circa 2700 metres]. Senior primary homonym of *Smittia rostrata* Wang & Wang, 1996. — Distr.: **PA**: Austria, Italy, Switzerland.

rupicola (KIEFFER in MERCIER, 1923): *Annales de la Société Entomologique de Belgique* **63**: 11 (*Phaenocladius*). Type-locality: [France] [p. 9] "Côte du Calvados . . . sur un rocher situé dans la zone de balancement des marées, entre Luc et Lion-sur-Mer, et qui est connu dans le pays sous le nom de " Roche Mignon "." [= Calvados coast . . . on a rock located in the marine intertidal zone, between Luc and Lion-sur-Mer, which is known in the region by the name " Roche Mignon "]. — Distr.: **PA**: Belgium, France, Germany.

sainokoensis SASA, 1984: *Research Report from the National Institute for Environmental Studies* **70**: 90 (*Smittia*). Type-localities: [Japan] {Nikko National Park} "on the shore of Lake Sainoko"; "on the shore of Lake Chuzenji". — Distr.: **PA**: Japan, Russia (Far East).

scutellosetosa CASPERS, 1988: *Spixiana Supplement* **14**: 175 (*Smittia*). Type-locality: [Germany] "Isarinsel bei Aümuhle (Nähe Schäftlarn in Oberbayern, Bundesrepublik Deutschland)" [= island in the Isar at Aümuhle (near Schäftlarn in Upper Bavaria, Federal Republic of Germany)]. — Distr.: **PA**: Finland, France, Germany, Italy.

seiryuvewea SASA, SUZUKI & SAKAI, 1999: *Tropical Medicine* **40**(3): 120 (*Smittia*). Type-locality: [Abstract, p. 99] "Shimanto River, western Shikoku Island, Japan"; [p. 120] "Ekawasaki". — Distr.: **PA**: Japan.

seiryuwexea SASA, SUZUKI & SAKAI, 1999: *Tropical Medicine* **40**(3): 121 (*Smittia*). Type-locality: [Abstract, p. 99] "Shimanto River, western Shikoku Island, Japan"; [p. 121] "Hiyoshi-mura". — Distr.: **PA**: Japan, Russia (NET, West Siberia).

sekii SASA, 1993: *Research Report from Toyama Prefectural Environmental Pollution*

Research Center **1993**: 63 (*Smittia*). Type-locality: [Japan] "on a highland swamp of Mount Tate at Murodo (Toyama)". — Distr.: **PA**: Japan.

seppfittkaui ASHE & O'CONNOR, 2012: *A World Catalogue of Chironomidae (Diptera). Part 2. Orthocladiinae*: 3 (*Smittia*; as nom. nov. for *Smittia rostrata* Wang & Wang, 1996, nec *Smittia rostrata* Goetghebuer, 1962). — Distr.: **PA**: China (Liaoning), Russia (Far East).

rostrata WANG & WANG, 1996: *Zoological Research* **17**(2): 122 (*Smittia*). Type-locality: [English Abstract, p. 124] {CHINA} "upstream of She River, Fushun County, Liaoning Province". **Preoccupied**. Junior primary homonym of *Smittia rostrata* Goetghebuer, 1962 – the latter is a valid species of *Smittia*.

shofukuduodecima SASA, 1998: *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 45 (*Smittia*). Type-locality: {Japan} [Abstract, p. 14] "in the Shofuku Garden, . . . about 1 km from the mouth of Kurobe River". — Distr.: **PA**: Japan.

shofukuquardecima SASA, 1998: *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 46 (*Smittia*). Type-locality: {Japan} [Abstract, p. 14] "in the Shofuku Garden, . . . about 1 km from the mouth of Kurobe River". — Distr.: **PA**: Japan.

shofukutridecima SASA, 1998: *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 45 (*Smittia*). Type-locality: {Japan} [Abstract, p. 14] "in the Shofuku Garden, . . . about 1 km from the mouth of Kurobe River". — Distr.: **PA**: Japan.

stercoraria ROSSARO & LENCIONI, 2000: *Bollettino di Zoologia Agraria e Bachicoltura,* (Serie II) **32**(2): 103 (*Smittia*). Type-locality: [Italy] "P. N. Abruzzi" [= Abruzzi National Park]. — Distr.: **PA**: Finland, Germany, Italy, Russia (NET).

subnigra FREEMAN, 1956: *Bulletin of the British Museum (Natural History)* Entomology **4**(7): 352 (*Smittia*; as nom. nov. for *Smittia nigra* Freeman, 1953, nec *Allocladius niger* Kieffer, 1913, when both in *Smittia* Holmgren, 1869). — Distr.: **AF**: South Africa. [**Note**]

nigra FREEMAN, 1953: *Proceedings of the Royal Entomological Society* (B) **22**(11/12): 206 (*Smittia*). Type-locality: [South Africa] "Berg River, French Hoek Forest Reserve". **Preoccupied** (in 1956). Junior secondary homonym of *Allocladius niger* Kieffer, 1913, when both in *Smittia* Holmgren, 1869. [**Note**]

subnudipennis GOETGHEBUER, 1933: *Skrifter om Svalbard og Ishavet* **53**: 28 (*Smittia*). Type-locality: "Myggbukta (Groenland orient.), . . . au N-O de la station" [Groenland orient. = Myggbukta (east Greenland.), . . . to the north-east of the station]. — Distr.: **NE**: Greenland.

superata GOETGHEBUER, 1939: *Bulletin et Annales de la Société Entomologique de Belgique* **79**(10/11): 384 (*Smittia*). Type-locality: "Laponie suédoise" [= Swedish Lapland]. — Distr.: **PA**: Austria, Belgium, France, Germany, Great Britain, Ireland, Poland, Romania, Sweden, Syria.

tenuispina CHAUDHURI & BHATTACHARYAY, 1989: *Deutsche Entomologische Zeitschrift* (Neue Folge) **36**(4/5): 417 (*Smittia*). Type-locality: {India} "West Bengal, Darjeeling". — Distr.: **OR**: India (West Bengal).

terrestris (THIENEMANN & STRENZKE, 1941): *Zoologischer Anzeiger* **133**(11/12): 251 (*Euphaenocladius* (*Smittia*)). Type-localities: "an folgenden Stellen Schleswig-Holsteins gefunden" [= found at the following locations in Schleswig-Holstein]; "Kl. Plöner See, O-Ufer" [= Kleiner Plöner See, eastern shore]; "Trent-See, N-Ufer" [= Trent-See, northern shore]; "Diek-See"; "Uklei-See"; "Keller See, O-Ufer [= Keller See, eastern shore]; "Suhrer See, N-Ufer" [= Suhrer See, northern shore]; "Hege-See bei Mölln (Kr. Herzogtum Lauenburg)" [= Hege-See at Mölln (Herzogtum Lauenburg Hospital)]". Senior secondary homonym of *Smittia terrestris* Goetghebuer, 1941 (below) and *Smittia* (*Pseudosmittia*) *terrestris* Goetghebuer, 1943 (below). — Distr.: **PA**: Germany, **?**Hungary, **?**Iceland, **?**Mongolia, **?**Netherlands, **?**Romania. [**Note**]

terrestris GOETGHEBUER, 1941: *Archiv für Hydrobiologie* **38**: 289 (*Smittia*). Type-locality: [Title, p. 288] "Allemagne" [= Germany]. Junior secondary homonym of *Euphaenocladius* (*Smittia*) *terrestris* Thienemann & Strenzke, 1941 (above).

Senior primary homonym of *Smittia* (*Pseudosmittia*) *terrestris* Goetghebuer, 1943 (below).

terrestris GOETGHEBUER in GOETGHEBUER & LENZ, 1943: *Die Fliegen der Palaearktischen Region* **13g**: 109 (*Smittia* (*Pseudosmittia*)). Type-locality: "Germania" [= Germany]. Junior secondary homonym of *Euphaenocladius* (*Smittia*) *terrestris* Thienemann & Strenzke, 1941 (above). **Preoccupied**. Junior primary homonym of *Smittia terrestris* Goetghebuer, 1941 (above).

thalassicola GOETGHEBUER in GOETGHEBUER & LENZ, 1943: *Die Fliegen der Palaearktischen Region* **13g**: 101 (*Smittia* (*Smittia*); as nom. nov. for *Smittia thalassobia* Goetghebuer, 1937 nec *Camptocladius thalassobius* Kieffer, 1925 when both in *Smittia* Holmgren, 1869). — Distr.: **PA**: France.

thalassobia GOETGHEBUER, 1937: *Bulletin et Annales de la Société Entomologique de Belgique* **77**(6): 276 (*Smittia*). Type-locality: "littoral méditerranéen (France)" [= littoral of the Mediterranean Sea (France)] ‖► Type-locality: "Aus Frankreich (Ilot du Planier)" [= From France (Planier Island)] in Goetghebuer in Goetghebuer & Lenz, 1943: *Die Fliegen der Palaearktischen Region* **13g**: 101◄‖. Junior secondary homonym of *Camptocladius thalassobius* Kieffer, 1925, when both in *Smittia* Holmgren, 1869. [**Note**]

togapenis SASA, WATANABE & ARAKAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 234 (*Smittia*). Type-locality: [Japan] [Summary, p. 231] "at the side of a highland swamp of Yachidani, Togamura"; [p. 234] "Yachidani". — Distr.: **PA**: Japan.

togaquirea SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 163 (*Smittia*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 163] "at Momose". — Distr.: **PA**: Japan.

toyamasetea SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 40 (*Smittia*). Type-locality: [Introduction, p. 16] "Japan . . . in the zoological garden called Toyama City

Family Park on the foot of Kureha Hill"; [p. 17] "at the side of the ground pool "A." " [= Lake A, p. 16]. — Distr.: **PA**: Japan.

tusimoyezea SASA & SUZUKI, 1999: *Tropical Medicine* **41**(2): 101 (*Smittia*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 101] "Azugawa". — Distr.: **PA**: Japan.

unicapitis CHAUDHURI & BHATTACHARYAY, 1989: *Deutsche Entomologische Zeitschrift* (Neue Folge) **36**(4/5): 418 (*Smittia*). Type-locality: {India} "West Bengal, Darjeeling". — Distr.: **OR**: India (West Bengal).

uresifegea SASA & SUZUKI, 1998: *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 84 (*Smittia*). Type-locality: [Japan] [p. 78] "at Ureshino, Saga . . . at the side of the stream running through the hot spring town of Ureshino"; [p. 84] "at Ureshino". — Distr.: **PA**: Japan.

velutina (LUNDBECK, 1898): *Videnskabelige Meddelelser fra Dansk Naturhistorisk Forening i Kjøbenhavn* **5**: 274 (*Chironomus*). Type-localities: {Grønland} "Julianehaab, Godthaab, Holstensborg" [Grønland = Greenland] [Lectotype designated in Oliver, 1970: *Entomologica Scandinavica* **1**(2): 107, "Godthaab, Greenland"]. — Distr.: **NE**: Canada (Nunavut, Greenland.

verna (HUTTON, 1902): *Transactions and Proceedings of the New Zealand Institute* **34**: 185 (*Camptocladius*). Type-locality: {New Zealand} "Christchurch". — Distr.: **AU**: New Zealand (North Island, South Island).

vesparum (GOETGHEBUER, 1921): *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 169 (*Camptocladius*). Type-locality: {Belgique} [p. 88] "dans un nid de guêpes, à Francorchamps" [= in the nest of a wasp, at Francorchamps], [p. 189] "Francorchamps (H. B.)" [H. B. = Haute Belgique] [Belgique = Belgium]. — Distr.: **PA**: Belgium, France, Romania Russia (Far East). [**Note**]

sp.: BRUNDIN, 1962: *Pacific Insects* **4**(4): 953 (*Smittia*). Locality: "Macquarie I.". — Distr.: **AU**: Macquarie Island.

sp.: CHENG & HOGUE, 1975: *Entomological News* **85**(7/8): 216 (*Smittia*). Locality: [p. 211]

"peninsula of Baja California, Mexico, . . . Isla San José". — Distr.: **NE**: Mexico (Baja California Sur).

sp.: SÆTHER & ANDERSEN, 2011: *Zootaxa* **2915**: 9 (*Smittia*). Locality: "TRISTAN DA CUNHA: Site 7, on rim west of patches, above Molly Gulch, below Dailies Hill, 37°108′44"S; 12°326′53"W, *Blechnum palmiforme*-grassland mix, 2270 ft.". — Distr.: **AF**: Tristan da Cunha.

Nomina dubia probably in SMITTIA

acutilobata GOETGHEBUER, 1933: *Bulletin et Annales de la Société Entomologique de Belgique* **72**(11/12): 293 (*Smittia*). Type-locality: "pris à Hasselt (Belgique)" [= taken at Hasselt (Belgium)]. [**Note**]

allocerus (KIEFFER, 1918): *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 77 (*Camptocladius*). Type-locality: "Tunisie: Bordj Cedria" [Tunisie = Tunisia].

alpina (KIEFFER in HUBAULT, 1927): *Bulletin Biologique de la France et de la Belgique Supplement* **9**: 164 (*Phaenocladius*; as "*Phœnocladius*"). Type-locality: [France] "dans les torrents des Alpes de Tarentaise" [= in the torrents of the Tarentaise Alps]. [**Note**]

anura GOETGHEBUER, 1932: *Faune de France* **23**: 121 (*Smittia* (*Smittia*)). Type-locality: "Belgique" [= Belgium].

aphylla (KIEFFER, 1921): *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **40**: 290 (*Camptocladius*). Type-locality: [Latvia] [p. 275] "environs de Libau, en Courlande" [= vicinity of Libau (now Liepaja), in Courland (now Kurzeme)].

aquilonis GOETGHEBUER, 1940: *Bulletin et Annales de la Société Entomologique de Belgique* **80**(1): 64 (*Smittia*). Type-locality: [Introduction, p. 55] "aux environs d'Abisko, en Laponie Suédoise" [= in the vicinity of Abisko, in Swedish Lapland]; [p. 65] "près d'une source" [= near a spring].

atriventris (KIEFFER, 1921): *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **40**: 292 (*Camptocladius*). Type-locality: [Latvia] [p. 275] "environs

de Libau, en Courlande" [= vicinity of Libau (now Liepaja), in Courland (now Kurzeme)].

bicolorata (GOETGHEBUER in TIMON-DAVID, 1937): *Annales de la Faculté des Sciences de Marseille (2e Série)* **10**: 48 (*Trichocladius*). Type-locality: [France] "dans le massif du Mont-Blanc, au jardin de Telèfre (alt. 2800, environ), sur fleurs de *Saxifraga bryoides*" [= in the massif of Mont-Blanc, in the alpine meadow of Telèfre (altitude about 2800 metres), on flowers of *Saxifraga bryoides*].

clavatiforceps (KIEFFER, 1922): *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 29, 37 (*Camptocladius*). Type-locality: [Title, p. 26] "Européens" [= European, i.e. Europe] ‖ ► Type-locality: [Germany] "Holstein, lac de Dicksee" [= Holstein, lake Dieksee] in Kieffer, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 79 ◄ ‖. Senior primary homonym of *Camptocladius clavatiforceps* Kieffer, 1924 (below). [**Note**]

clavatiforceps (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 79 (*Camptocladius*). Type-locality: [Germany] "Holstein, lac de Dicksee" [= Holstein, lake Dieksee]. **Preoccupied**. Junior primary homonym of *Camptocladius clavatiforceps* Kieffer, 1922 (above).

curvinervis (KIEFFER, 1911): *Bulletin de la Société Entomologique de France* **1911**: 185 (*Trichocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖ ► Type-locality: [Germany] "auf der Fülbecketalsperre" [= above the Fülbecke Dam] in Thienemann, 1911: *Landwirtschaftliche Jahrbücher* **41**: 637 ◄ ‖.

distalis GOETGHEBUER, 1934: *Bulletin et Annales de la Société Entomologique de Belgique* **74**(5/6): 216 (*Smittia*). Type-locality: [Israel] "Palestine".

distans (KIEFFER, 1921): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 99 (*Camptocladius*). Type-locality: [Poland] "Silésie" [= Silesia].

flavicornis (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 82 (*Phaenocladius*). Type-locality: [Germany] "Holstein, d'une source" [= Holstein, in a spring].

flaviforceps (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**:

81 (*Phaenocladius*). Type-locality: "Allemagne" [= Germany].

foliata (KIEFFER, 1906): *Annales de la Sociétés Scientifique de Bruxelles, 2e partie (Mémoires)* **30**: 334 (*Camptocladius*). Type-locality: [France] "Bitche". [**Note**]

foliata (KIEFFER, 1906): *Genera Insectorum* **42**: 24 (*Camptocladius*). Locality: [France] "Lorraine". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

fulvipluma (KIEFFER, 1926): *Norsk Entomologisk Tidsskrift* **2**: 85 (*Camptocladius*). Type-locality: [Canada, Nunavut, Ellesmere Island] "Vinter Havnen" [= E. Alexandra Fjord].

fulvosignata (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 75 (*Camptocladius*). Type-locality: [Germany] "Holstein".

fusciforceps (KIEFFER, 1921): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 98 (*Camptocladius*). Type-locality: [Poland] "Silésie" [= Silesia].

fusciventris (KIEFFER, 1921): *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **40**: 209 (*Camptocladius*). Type-locality: [Latvia] [p. 275] "environs de Libau, en Courlande" [= vicinity of Libau (now Liepaja), in Courland (now Kurzeme)].

glacialis (KIEFFER, 1926): *Norsk Entomologisk Tidsskrift* **2**: 86 (*Camptocladius*). Type-locality: [Canada, Nunavut, Ellesmere Island] "Havum" [error = Havnen, = Gåsefjord]. [**Note**]

gridellii MARCUZZI, 1947: *Bollettino della Societa Entomologica Italiana* **77**(1/2): 10 (*Smittia*; as "*Gridellii*"). Type-locality: [Italy] "Venezia, Tocello".

hoegeni (KIEFFER, 1918): *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 79 (*Camptocladius*; as "*Hoegeni*"). Type-locality: [Tunisia] "Tunis".

limnophila (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 81 (*Phaenocladius*). Type-locality: [Poland] "Nord de l'Allemagne : lac Madu" [= northern Germany (now Poland): Lake Madu (now Lake Miedwie)].

lindneriella GOETGHEBUER in GOETGHEBUER & LENZ, 1943: *Die Fliegen der Palaearktischen Region* **13g**: 94 (*Smittia* (*Smittia*); as "*Lindneriella*"). Type-locality: [Austria] "Aus dem Algenüberzug von Krustensteinen der Uferzone des Lunzer Sees (Niederdonau) . . . Germania" [= From the algal covering of encrusted stones on the shoreline of lakes at Lunz (Lower Danube) . . . Germany].

littorella (GOETGHEBUER, 1927): *Annales de Biologie Lacustre* **15**: 100 (*Camptocladius*). Type-locality: {Belgique} "Zwijn, à Knocke s/mer" [Belgique = Belgium]. **[Note]**

longirostris GOETGHEBUER in TIMON-DAVID, 1937: *Annales de la Faculté des Sciences de Marseille (2e Série)* **10**: 50 (*Smittia*). Type-locality: [France] "Massif du Mont-Blanc : rochers des Grands-Mulets (alt. 3500), sur fleurs de *Saxifraga bryoides* " [= Massif of Mont-Blanc : rocks of the Grands-Mulets (altitude 3500 metres), on flowers of *Saxifraga bryoides*].

longiventris (KIEFFER, 1918): *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 79 (*Camptocladius*). Type-locality: [Tunisia] "Tunis".

malarodai MARCUZZI, 1947: *Bollettino della Societa Entomologica Italiana* **77**(1/2): 9 (*Smittia*; as "*Malarodai*"). Type-locality: [Italy] "Venezia, Tocello, . . . delle rive dei canali che attraversano e circondano l'isola" [= Venezia, Tocello, . . . on the banks of the canals that crisscross and encircle the island].

monochaeta (KIEFFER, 1918): *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 80 (*Camptocladius*). Type-locality: [Tunisia] "Tunis".

nana SYCHEVA, 1955: *Zametki po faune i flore Sibiri* **18**: 42 (*Smittia*). Type-locality: [Russia, West Siberia] [Introduction, p. 39] **Ozero Sovetskoe . . . v verkhov'e reki Turukhana, s kotorym syyazano rechkoi Sovetskoi, vytekayushchei iz ozera** [= Lake Sovetskoe . . . in the upper reaches of the River Turukhan,

which is connected to the small River Sovetskaya, that flows out from the lake]. [**Note**]

nanseni (KIEFFER, 1926): *Norsk Entomologisk Tidsskrift* **2**: 86 (*Camptocladius*; as "*Nanseni*"). Type-locality: [Canada, Nunavut, Ellesmere Island] "Vinter Havnen" [= Gåsefjord]. [**Note**]

olivacea (KIEFFER, 1922): *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 28 (*Camptocladius*). Type-locality: [Title, p. 26] "Européens" [= European, i.e. Europe] ‖ ►Type-locality: [Germany, Holstein] "Nord de l'Allemagne : lac de Selenter" [= northern Germany : Lake Selenter] in Kieffer, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 75◄‖. Senior primary homonym of *Camptocladius olivaceus* Kieffer, 1924 (below). [**Note**]

olivacea (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 75 (*Camptocladius*). Type-locality: [Germany, Holstein] "Nord de l'Allemagne : lac de Selenter" [= northern Germany : Lake Selenter]. **Preoccupied**. Junior primary homonym of *Camptocladius olivaceus* Kieffer, 1922 (above).

ornaticollis (KIEFFER, 1918): *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 78 (*Camptocladius*). Type-locality: [Tunisia] "Tunis".

orthocera (KIEFFER, 1918): *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 77 (*Camptocladius*). Type-locality: [Tunisia] "Tunis".

septentrionalis (KIEFFER, 1922): *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 21 (*Camptocladius*). Type-locality: [Russia] {Nouvelle-Zemble} "A l'embouchure du Rivière Chalhonik, Detroit Matotchkin" [= At the mouth of the River Chalhonik, Detroit Matotchkin].

spitzbergensis (KIEFFER in KIEFFER & LUNDBECK, 1911): *Avifauna Spitzbergensis*: 272 (*Trichocladius*; as "*Thrichocladius*"). Type-locality: [Norway] "Spitzbergen, Horn-Sund" [=Spitzbergen, Horn Sound].

strenzkei GOETGHEBUER in GOETGHEBUER & LENZ, 1943: *Die Fliegen der*

Palaearktischen Region **13g**: 108 (*Smittia* (*Pseudosmittia*); as "*Strenzkei*"). Type-locality: [Austria] "Vom Lunzer See in Niederdonau . . . Germania mer." [= From a lake at Lunz in the lower Danube . . . southern Germany]. [**Note**]

subaequalis (KIEFFER, 1921): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 94 (*Phaenocladius*). Type-locality: [Poland] "Silésie" [= Silesia].

subaptera GOETGHEBUER, 1934: *Trudy Karelo-Finskogo Filiala Akademii Nauk SSSR* **3**: 133 (*Smittia*). Type-locality: [Kazakhstan] "Nord-Est des bords de la Mer Caspienne" [= north-east shores of the Caspian Sea]. [**Note**]

subnitens (GOETGHEBUER, 1929): *Encyclopédie Entomologique, B-II, Diptera* **5**: 168 (*Camptocladius*). Type-locality: "Hockai (Belgique)" [= (Hockai) Belgium].

suecica (KIEFFER, 1922): *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 31 (*Camptocladius*). Type-locality: [Title, p. 26] "Européens" [= European, i.e. Europe] ‖ ► Type-locality: "Suède Swarthall" [= Sweden Swarthall] in Kieffer, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 79 ◄ ‖. Senior primary homonym of *Camptocladius suecicus* Kieffer, 1924 (below). [**Note**]

suecica (KIEFFER, 1924): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 79 (*Camptocladius*). Type-locality: "Suède Swarthall" [= Sweden Swarthall]. **Preoccupied**. Junior primary homonym of *Camptocladius suecicus* Kieffer, 1922 (above).

zavreli FITTKAU, SCHLEE & REISS, 1967: *Limnofauna Europaea*: 368 (*Smittia*; as nom. nov. for *Trichocladius nudipennis* Kieffer, 1923 nec *Camptocladius nudipennis* Goetghebuer, 1913, when both in *Smittia* Holmgren, 1869]. [**Note**]

nudipennis (KIEFFER, 1923): *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 155 (*Trichocladius*). Type-locality: [Czech Republic] "Bohême". **Preoccupied**. Junior secondary homonym of *Camptocladius nudipennis* Goetghebuer, 1913 - now a valid species of *Smittia* Holmgren, 1869.

Unavailable names in SMITTIA

hidakajekea SASA & SUZUKI, 2001: *Tropical Medicine* **42**(3/4): 178 (*Smittia*). Locality: {Hokkaido, Japan} [p. 178] "in the Hidaka Mountain areas . . . Shizunai River". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togaurea (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120 (*Orthosmittia*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

Genus **STACKELBERGINA** SHILOVA & ZELENTSOV

STACKELBERGINA SHILOVA & ZELENTSOV, 1978: *Zoologicheskii Zhurnal* **57**(10): 1584. Type-species: *Stackelbergina praeclara* Shilova & Zelentsov, 1978, by monotypy.

praeclara SHILOVA & ZELENTSOV, 1978: *Zoologicheskii Zhurnal* **57**(10): 1584 (*Stackelbergina*). Type-locality: [Russia, Central European Territory] **Luzha, Borok, Yaroslavskoi obl.** [= pool, Borok, Yaroslavl Oblast]. — Distr.: **NE**: Canada (Québec); **PA**: Finland, Russia (CET, NET).

Genus **STICTOCLADIUS** EDWARDS

STICTOCLADIUS EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 279 (as subgenus of *Spaniotoma* Philippi, 1866). Type-species: *Spaniotoma* (*Stictocladius*) *pulchripennis* Edwards, 1931, by original designation.

acrilobus SÆTHER & CRANSTON, 2012: *Neotropical Entomology* **41**(2): 126 (*Stictocladius*). Type-locality: "Argentina: Puerto Blest, Arroyo Blest". — Distr.: **NT**: Argentina, Chile.

acutus SÆTHER & CRANSTON, 2012: *Neotropical Entomology* **41**(2): 128 (*Stictocladius*).

Type-locality: "Peru: Rio Azul at mouth of Rio Tulumayo near Tingo Maria". — Distr.: **NT**: Bolivia, Costa Rica, Ecuador, Peru.

calonotum (EDWARDS, 1931): *Diptera of Patagonia and South Chile* **2**(5): 282 (*Spaniotoma* (*Stictocladius*)). Type-locality: [Argentina] "Bariloche". — Distr.: **NT**: Argentina, Chile. [**Note**]

calonotus: incorrect subsequent spelling.

fimbriatus SÆTHER & CRANSTON, 2012: *Neotropical Entomology* **41**(2): 131 (*Stictocladius*). Type-locality: "Chile: XI Region, Rio Emperador Guillermo, 10 km N. Villa Ortega". — Distr.: **NT**: Chile.

flavozonatus (EDWARDS, 1931): *Diptera of Patagonia and South Chile* **2**(5): 281 (*Spaniotoma* (*Stictocladius*)). Type-locality: [Argentina] "Bariloche". — Distr.: **NT**: Argentina.

fovigus SÆTHER & CRANSTON, 2012: *Neotropical Entomology* **41**(2): 133 (*Stictocladius*). Type-locality: "Chile: S. Chile, Chiloé, Lago Huillingo, south of Castro". — Distr.: **NT**: Argentina, Chile.

lacuniferus (FREEMAN, 1959): *Bulletin of the British Museum (Natural History)* Entomology **7**(9): 416 (*Diplocladius*). Type-locality: {New Zealand} "Canterbury: Cass". — Distr.: **AU**: New Zealand (South Island).

multiserialis (FREEMAN, 1961): *Australian Journal of Zoology* **9**(4): 641 (*Diplocladius* (*Stictocladius*)). Type-locality: {Australia} "Manly, N.S.W." [N.S.W. = New South Wales]. — Distr.: **AU**: Australia (Australian Capital Territory, New South Wales, Queensland, Tasmania, Victoria).

nudiventer SÆTHER & CRANSTON, 2012: *Neotropical Entomology* **41**(2): 134 (*Stictocladius*). Type-locality: "Argentina: Rio Negro, R. Ñirihuau, s. airport Bariloche, 41°09.55′N, 71°07.94′W". — Distr.: **NT**: Argentina, Chile.

occidentalis CRANSTON & SÆTHER, 2010: *Australian Journal of Entomology* **49**(2): 139 (*Stictocladius*)). Type-locality: {Australia} "Western Australia . . . Shannon N. P., Fish Creek, 34°41′S, 116°23′E". — Distr.: **AU**: Australia (Western Australia).

pictus (FREEMAN, 1959): *Bulletin of the British Museum (Natural History)* Entomology **7**(9): 416 (*Diplocladius*). Type-locality: {New Zealand} "Wellington: Ohakune". — Distr.: **AU**: New Zealand (North Island, South Island). [**Note**]

prati SÆTHER & CRANSTON, 2012: *Neotropical Entomology* **41**(2): 135 (*Stictocladius*). Type-locality: "Peru: Ancharacancha stream (near Vitis), 12°05′39.87″S 75°48′39.61″W, 4,065 m asl". — Distr.: **NT**: Peru.

privicalcar SÆTHER & CRANSTON, 2012: *Neotropical Entomology* **41**(2): 136 (*Stictocladius*). Type-locality: "Chile: XI Region, Lago Riesco, 15 km S. Puerto Aisen". — Distr.: **NT**: Chile.

prostatus SÆTHER & CRANSTON, 2012: *Neotropical Entomology* **41**(2): 137 (*Stictocladius*). Type-locality: "Chile: XI Region, Cementerio, Puerto Aisen". — Distr.: **NT**: Chile.

pulchripennis (EDWARDS, 1931): *Diptera of Patagonia and South Chile* **2**(5): 280 (*Spaniotoma* (*Stictocladius*)). Type-locality: [Argentina] "Bariloche". — Distr.: **NT**: Argentina, Chile.

sofour CRANSTON & SÆTHER, 2010: *Australian Journal of Entomology* **49**(2): 140 (*Stictocladius*)). Type-locality: "Australia. Australian Capital Territory. Brindabellas, Lees Creek, 35°21′S, 148°52′E". — Distr.: **AU**: Australia (Australian Capital Territory, New South Wales).

uniserialis (FREEMAN, 1961): *Australian Journal of Zoology* **9**(4): 643 (*Diplocladius* (*Stictocladius*)). Type-locality: {Australia} "Mt. Wellington, Tas." [= Tasmania]. — Distr.: **AU**: Australia (Australian Capital Territory, New South Wales, Queensland, South Australia, Tasmania, Victoria, Western Australia).

victoriensis (FREEMAN, 1961): *Australian Journal of Zoology* **9**(4): 643 (*Diplocladius* (*Stictocladius*)). Type-locality: {Australia} "Belgrave, Vic." [Vic. = Victoria]. — Distr.: **AU**: Australia (Australian Capital Territory, New South Wales, Victoria).

sp. G: SÆTHER & CRANSTON, 2012: *Neotropical Entomology* **41**(2): 144 (*Stictocladius*). Localities: "USA: . . . IDAHO, Owyhee County, Bruneau River, Indian Hot

Springs, 1129 m asl"; "Montana, Glacier County, Two Medicine River about 10 mi above Birch Creek"; "New Mexico, Rio Arriba Co., Navajo River at East Jicarilla Reservation Boundary, 36.9°65′25″S, 106.95°94′17″W". — Distr.: **NE**: U.S.A. (Idaho, Montana, New Mexico).

Genus **STILOCLADIUS** ROSSARO

STILOCLADIUS ROSSARO, 1979: *Bollettino del Museo Civico di Storia Naturale, Verona* **6**: 347. Type-species: *Stilocladius montanus* Rossaro, 1979, by original designation.

clinopecten SÆTHER, 1982: *Entomologica Scandinavica* **13**(4): 494 (*Stilocladius*). Type-locality: "U.S.A. . . . 18 Mile Creek, Sunny Acres, Clemson, South Carolina". — Distr.: **NE**: Canada (Nova Scotia), U.S.A. (Florida, Georgia, North Carolina, Ohio, South Carolina).

intermedius WANG, 1998: *Studia Dipterologica* **5**(1): 81 (*Stilocladius*). Type-locality: "China: Jilin Province, Antu County, Mt. Changbai (42,0°N, 128,1°E)". — Distr.: **PA**: China (Jilin), Russia (CET, NET, Far East).

kurobekeyakius (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 67 (*Eukiefferiella*). Type-locality: [Japan] [p. 41] "Kurobe River Basin", [p. 67] "Keyakidaira". — Distr.: **PA**: Japan.

tusimoheius (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(2): 85 (*Eukiefferiella*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan].

yakupequea (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(2): 73 (*Eukiefferiella*). Type-locality: {Yakushima Island, Southwestern Japan} "Yakusugi Land".

montanus ROSSARO, 1979: *Bollettino del Museo Civico di Storia Naturale, Verona* **6**: 347 (*Stilocladius*). Type-locality: {Alpi Italiane} "f. Oglio, nell'alto corso a 1100 m s. l. m. presso Vezza (Brescia)" [= River Oglio, in the upper course at 1100 metres above sea level at Vezza (Brescia)]; [Alpi Italiane = Italian Alps]. — Distr.: **PA**: Austria, Germany, Italy, **?**Portugal, Slovakia, Spain, Switzerland.

orientalis MAKARCHENKO & MAKARCHENKO, 2003: *Evraziatskii Entomologicheskii*

Zhurnal **2**(2): 136 (*Stilocladius*). Type-locality: **Rossiya, Primorskii krai, Khasanskii r-n, zapovednik «Kedrovaya pad′», r. Kedrovaya v okrestnostyakh usad′by** [= Russia, Primorsky Krai, Khasansky District, «Kedrovaya pad′» Nature Reserve, River Kedrovaya in the vicinity of the farm]. — Distr.: **PA**: Russia (Far East).

tusimogeheus (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(2): 85 (*Eukiefferiella*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 85] "Izumi". — Distr.: **PA**: Japan.

Genus **SUBLETTIELLA** SÆTHER

SUBLETTIELLA SÆTHER, 1983: *Aquatic Insects* **5**(4): 222. Type-species: *Sublettiella calvata* Sæther, 1983, by original designation.

calvata SÆTHER, 1983: *Aquatic Insects* **5**(4): 223 (*Sublettiella*). Type-locality: [U.S.A.] "east fork Chattooga River, National Fish Hatchery, Oconee Co., South Carolina". — Distr.: **NE**: U.S.A. (South Carolina).

Genus **SYMBIOCLADIUS** KIEFFER

SYMBIOCLADIUS KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 565. Type-species: *Phaenocladius rhithrogenae* Zavřel, 1924, by original designation.

ACLETIUS ROBACK, 1965: see below as subgenus.

SYMBIOCLADIUS KIEFFER, 1925: see below as subgenus.

Subgenus **ACLETIUS** ROBACK

ACLETIUS ROBACK, 1965: *Entomological News* **76**(5): 115. Type-species: *Symbiocladius* (*Acletius*) *wygodzinskyi* Roback, 1965, by original designation.

aurifodinae HYNES, 1976: *Memoirs of the National Museum of Victoria* **37**: 49 (*Symbiocladius* (*Acletius*)). Type-locality: {Australia, Victoria} "Crown Cr." [on page 47 = "Crown Creek above Woods Point (map reference 424367), 2300

ft.”]. — Distr.: **AU**: Australia (New South Wales, Victoria).

renatae SPIES in GONSER & SPIES, 1997: *Ephemeroptera & Plecoptera: biology - ecology - systematics*: 456 (*Symbiocladius*). Type-locality: “Chile, Region IX, Prov. Cautín, Arroyo to Estero Pirén ca. 7 km above confl. with Rio Queule”. — Distr.: **NT**: Argentina, Chile.

wygodzinskyi ROBACK, 1965: *Entomological News* **76**(5): 115 (*Symbiocladius* (*Acletius*)). Type-locality: “Argentina, Ushuaia, Tierra del Fuego”. — Distr.: **NT**: Argentina, Chile.

Subgenus **SYMBIOCLADIUS** KIEFFER

chattahoocheensis CALDWELL, 1984: *Georgia Journal of Science* **42**: 86 (*Symbiocladius* (*Symbiocladius*)). Type-locality: [U.S.A.] “White County, Georgia, Chattahoochee River at Georgia Highway 356”. — Distr.: **NE**: U.S.A. (Georgia).

equitans (CLAASSEN, 1922): *Kansas University Science Bulletin* **14**(16): 397 (*Trissocladius*). Type-locality: [U.S.A.] “Estes Park, Colo.” [Colo. = Colorado]. — Distr.: **NE**: Canada (Northwest Territories), U.S.A. (California, Colorado, North Carolina, Utah, Vermont).

rhithrogenae (ZAVŘEL in ŠULC & ZAVŘEL, 1924): *Acta Societatis Scientiarum Naturalium Moravo-Silesiacae* **1**: 372 (*Phaenocladius*; as “*Rhithrogenae*”). Type-locality: [Czech Republic] “Potok Němá Strouha u Č. Budějovic” [= Němá stream ditch in České Budějovic]. — Distr.: **PA**: Austria, Czech Republic, France, Germany, Hungary, Japan, Poland, Romania, Russia (CET, Far East), Slovakia, Spain, Switzerland, Turkey, Ukraine. [**Note**]

microcephalus (ZAVŘEL in ŠULC & ZAVŘEL, 1924): *Acta Societatis Scientiarum Naturalium Moravo-Silesiacae* **1**: 368 (*Phaenocladius*). Type-locality: [Czech Republic] “Prahy” [= Prague].

brevipalpis (DORIER, 1926): *Comptes Rendus Hebdomadaires des Séances de l’Académie des Sciences* **183**(19): 810 (*Dactylocladius*; as “*brevipalpis*

Goetghebuer"). Type-locality: [France] "dans la région de Grenoble . . . dans la rivière la Cumane, près de Saint-Vérand (Isère)" [= in the Grenoble region . . . in the Cumane River, near Saint-Vérand (Isère)]. [**Note**]

Genus **SYNORTHOCLADIUS** THIENEMANN

SYNORTHOCLADIUS THIENEMANN, 1935: *Stettiner Entomologische Zeitung* **96**(2): 211. Type-species: *Dactylocladius semivirens* Kieffer, 1909, by original designation.

MONGOLCLADIUS SASA & SUZUKI, 1997: *Japanese Journal of Tropical Medicine and Hygiene* **25**(4): 182. Type-species: *Mongolcladius mongolwexeus* Sasa & Suzuki, 1997, by original designation. Synonymized with *Synorthocladius* Thienemann, 1935, by Sæther, Ashe & Murray (2000: *Manual of Palaearctic Diptera* **4** (Appendix): 177).

asamasecundus SASA & HIRABAYASHI, 1991: *Japanese Journal of Sanitary Zoology* **42**(2): 121 (*Synorthocladius*). Type-locality: [Japan] [p. 117] "at Asama-Onsen, in the suburbs of Matsumoto City, Nagano Prefecture". — Distr.: **PA**: Japan.

bifidus LIU & WANG, 2005: *Zootaxa* **1057**: 52 (*Synorthocladius*). Type-locality: "CHINA: Yunnan Province: Eryuan County: Niujie Township: Futianlin, Meicihe (26° 15 N, 100° 00 E), alt. 2262 m". — Distr.: **OR**: China (Guangdong, Yunnan).

ginzanpequea (SASA & SUZUKI, 2001): *Tropical Medicine* **43**(1/2): 22 (*Eukiefferiella*). Type-locality: {Hokkaido, Japan} "Ginzan". — Distr.: **PA**: Japan.

lobiger (FREEMAN, 1953): *Proceedings of the Royal Entomological Society* (B) **22**(11/12): 201 (*Pseudorthocladius*). Type-locality: [South Africa] "Berg River, Wellington". — Distr.: **AF**: South Africa. [**Note**]

reductus (FREEMAN, 1954): *Proceedings of the Royal Entomological Society* (B) **23**(9/10): 173 (*Orthocladius*). Type-locality: [South Africa] "Berg River, Assegaibos".

mongolwexeus (SASA & SUZUKI, 1997): *Japanese Journal of Tropical Medicine and Hygiene* **25**(4): 182 (*Mongolcladius*). Type-locality: {Mongolia} "River Orkhon . . . at 1,775 m high from sea level". — Distr.: **PA**: Mongolia.

semivirens (KIEFFER, 1909): *Bulletin de la Société d'Histoire Naturelle de Metz* **26**: 48

(*Dactylocladius*; as "*Semivirens*"). Type-locality: {Allemagne} [= Germany] "Westphalie" [= Westphalia] ‖►Type-locality: [Germany] "In Zuflüssen der Glörtalsperre" in Kieffer & Thienemann, 1909: *Jahresberichte des Westfälischen Provinzial-Vereins für Wissenschaft und Kunst* **37**: 32◄‖. — Distr.: **NE**: Canada (Northwest Territories, Saskatchewan), Mexico (Mexico State), U.S.A. (Alabama, Florida, Georgia, Michigan, North Carolina, Ohio, South Carolina, Tennessee); **PA**: Andorra, Austria, Azores, Balearic Islands, Belgium, Bulgaria, Corsica, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Lithuania, Luxembourg, Madeira, Moldova, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia (CET, NET, SET, East Siberia, Far East, West Siberia), Sardinia, Sicily, Slovakia, Spain, Sweden, Switzerland, Turkey, ¶Yugoslavia; **OR**: China (Shaanxi).

breviradius (KIEFFER, 1911): *Bulletin de la Société Entomologique de France* **1911**: 183 (*Dactylocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖►Type-locality: [Germany, Westphalia] "Henne oberhalb der Talsperre" [= Henne above the dam] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 79◄‖.

flaviforceps (KIEFFER, 1911): *Bulletin de la Société Entomologique de France* **1911**: 183 (*Dactylocladius*; as var. of *breviradius* Kieffer, 1911). Type-locality: [Introduction] "Allemagne" [= Germany]. [**Note**]

miricornis (KIEFFER, 1911): *Bulletin de la Société Entomologique de France* **1911**: 183 (*Dactylocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖►Type-locality: [Germany] "an einem Zufluß der Östertalsperre" [= on an inflow to the Öster Dam reservoir] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 79]◄‖. **Syn. nov.** [**Note**]

tripilatus (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 348 (*Spaniotoma* (*Orthocladius*)). Type-localities: [Great Britain]

"numerous localities in Herts. [Herts. = Hertfordshire], Beds. [= Bedfordshire], Cambs. [= Cambridgeshire], Suffolk, Surrey, Oxford [= Oxfordshire], Yorks. [= Yorkshire], Westmorland and Devon".

tamaparvulus SASA, 1981: *Research Report from the National Institute for Environmental Studies* **29**: 9 (*Synorthocladius*). Type-locality: {Japan, Tama River, Minamiasakawa River} "Station No. 3". — Distr.: **PA**: Japan.

tusimoijekeus (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(2): 87 (*Eukiefferiella*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 87] "Sumogawa". — Distr.: **PA**: Japan.

"cf. *semivirens* (Kieffer)": ROBACK & COFFMAN, 1987: *Proceedings of the Academy of Natural Sciences of Philadelphia* **139**(1): 127 (*Synorthocladius*). Localities: {Nepal} "NP26" [= "Three small streams, tributaries of Bhurungai Khola, Nyathanti . . . alt. 2250 m."]; "NP38" [= "Mountain stream, tributary of Bhurungai Khola, Ghorepani . . . 2520 m."]. — Distr.: **OR**: Nepal.

sp.: CRANSTON & MARTIN, 1989: *Catalog of the Diptera of the Australasian and Oceanic Regions*: 263 (*Synorthocladius*). Localities: "Australia (ACT, NSW, SA)" [ACT = Australian Capital Territory, NSW = New South Wales, SA = South Australia]. — Distr.: **AU**: Australia (Australian Capital Territory, New South Wales, South Australia).

sp.: WATSON & HEYN, 1993: *Netherlands Journal of Aquatic Ecology* **26**(2/4): 259 (*Synorthocladius*). Locality: "Costa Rica . . . S 1650 m" [= Costa Rica . . . San Jose Province 1650 metres]. — Distr.: **NT**: Costa Rica.

Genus **TAVASTIA** TUISKUNEN

TAVASTIA TUISKUNEN, 1985: *Annales Entomologici Fennici* **51**(1): 30. Type-species: *Tavastia australis*, Tuiskunen, 1985, by original designation.

alticrista STUR & WIEDENBRUG, 2005: *Aquatic Insects* **27**(2): 126 (*Tavastia*). Type-locality: "Germany, Bavaria, Nationalpark BGL, Herrenroint, spring no. 308, 12°58'20 E, 47°34'40 N, at 1250 m elevation, rheohelocrene spring". — Distr.:

PA: Germany.

australis TUISKUNEN, 1985: *Annales Entomologici Fennici* **51**(1): 30 (*Tavastia*). Type-locality: "Finland, Ta, Kangasala, Ponsa (683:35), 300 m north of the east end of Lake Pikkujärvi". — Distr.: **PA**: Finland, Netherlands.

cristacauda SÆTHER, 1992: *Entomologica Scandinavica* **22**(4): 385 (*Tavastia*). Type-locality: "U.S.A.: Michigan, Newago Co., White Cedar Swamp, wet area". — Distr.: **NE**: U.S.A. (Michigan, North Carolina, Ohio).

cristicauda: incorrect subsequent spelling.

pilipecta SÆTHER, 2010: *Aquatic Insects* **32**(3): 172 (*Tavastia*). Type-locality: "Canada: Manitoba, Lake Winnipeg, Gull Harbour". — Distr.: **NE**: Canada (Manitoba).

yggdrasilia BRODIN, LUNDSTRÖM & PAASIVIRTA, 2008: *Aquatic Insects* **30**(4): 262 (*Tavastia*). Type-locality: "SWEDEN, . . . eastern River Dalälven, Nordmyra wetland, Tärnsjö 16°52′46 E, 60°09′34 N, 55 m elevation". — Distr.: **PA**: Belarus, Finland, Netherlands, Russia (CET), Sweden.

Genus **TEMPISQUITONEURA** EPLER

TEMPISQUITONEURA EPLER in EPLER & DE LA ROSA, 1995: *Journal of the North American Benthological Society* **14**(1): 50. Type-species: *Tempisquitoneura merrillorum* Epler, 1995, by original designation.

TEMPESQUITONEURA EPLER & DE LA ROSA in FERRINGTON & SÆTHER, 1995: *Aquatic Insects* **17**(1): 63. Type-species: Not given. Name not made available - not accompanied by a description contrary to Article 13.1 and not accompanied by the fixation of a type-species contrary to Article 13.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**.

merrillorum EPLER in EPLER & DE LA ROSA, 1995: *Journal of the North American Benthological Society* **14**(1): 56 (*Tempisquitoneura*). Type-locality: "COSTA RICA: Guanacaste: Quebrada Pedregal, 2 km south of Estación Cerro El Hacha; 10°58′55″N, 85°32′30″W, elevation 300m.". — Distr.: **NT**: Costa Rica; **NE**: U.S.A. (Arizona, Nevada, Utah).

merillorum: incorrect original spelling.

Genus **TETHYMYIA** WIRTH

TETHYMYIA WIRTH, 1949: *University of California Publications in Entomology* **8**(4): 160. Type-species: *Tethymyia aptena* Wirth, 1949, by original designation.

aptena WIRTH, 1949: *University of California Publications in Entomology* **8**(4): 161 (*Tethymyia*). Type-locality: [U.S.A.] "Point Lobos, Monterey County, California". — Distr.: **NE**: U.S.A. (California).

Genus **THALASSOSMITTIA** STRENZKE & REMMERT

THALASSOSMITTIA STRENZKE & REMMERT, 1957: *Kieler Meeresforschungen* **13**(2): 270. Type-species: *Camptocladius thalassophilus* Bequaert & Goetghebuer, 1914, by original designation.

SAUNDERIA SUBLETTE, 1967: *Journal of the Kansas Entomological Society* **40**(3): 318. Type-species: *Camptocladius clavicornis* Saunders, 1928, by original designation. Synonymized with *Thalassosmittia* Strenzke & Remmert, 1957, by Sæther (1977: *Bulletin of the Fisheries Research Board of Canada* **197**: 103).

IKIPRIMUS SASA & SUZUKI, 1999: *Tropical Medicine* **41**(3): 157. Type-species: *Ikiprimus ikiijeus* Sasa & Suzuki, 1999, by original designation. Synonymized with *Thalassosmittia* Strenzke & Remmert, 1957, by Yamamoto (2004: *Makunagi* **21**: 102).

atlantica (STORÅ, 1936): *Commentationes Biologicae* **6**(1): 27 (*Eukiefferiella*). Type-localities: {Kanarischen Inseln} [= Canary Islands] "Ten.: Puerto Cruz" [Ten. = Tenerife]; "Santa Cruz, am Meeresufer" [= Santa Cruz, on the seashore]; "Hiero, Puerto Estaca, am Meeresufer" [= El Hierro, Puerto Estaca, on the seashore] [Lectotype designation in Armitage, 1986: *Aquatic Insects* **8**(2): 105, {Canary Islands} "Tenerife, Puerto Cruz"]. — Distr.: **PA**: Azores, Canary Islands, Madeira.

? *grancanariensis* (STORÅ, 1936): *Commentationes Biologicae* **6**(1): 27 (*Eukiefferiella*; as subspecies of *atlantica* Storå, 1936). Type-locality:

{Kanarischen Inseln} [= Canary Islands] "Can.: Las Palmas" [= Gran Canaria: Las Palmas]. **Questionable synonym**.

christinae SÆTHER & ANDERSEN, 2011: *Zootaxa* **2915**: 10 (*Thalassosmittia*). Type-locality: "GOUGH ISLAND: Site SG1 at Snoek Gat, 40°20'439"S, 09°52'927"W, supralittoral, 5 m a.s.l.". — Distr.: **AF**: Gough Island.

clavicornis (SAUNDERS, 1928): *Annals of the Entomological Society of America* **21**(4): 528 (*Camptocladius*). Type-localities: {Canada} "Departure Bay, B. C." [B. C. = British Columbia]; "Ucluelet"; "Vancouver"; "Prince Rupert". — Distr.: **NE**: Canada (British Columbia), U.S.A. (Alaska, California).

ikiijea (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(3): 157 (*Ikiprimus*). Type-locality: [Title, p. 143] "Western Japan. . . . Iki Island"; [p. 157] "Satofure". — Distr.: **PA**: Japan.

marina (SAUNDERS, 1928): *Annals of the Entomological Society of America* **21**(4): 526 (*Camptocladius*). Type-localities: {Canada} "Departure Bay, B. C." [B. C. = British Columbia]; "Vancouver"; "Prince Rupert". — Distr.: **NE**: Canada (British Columbia), U.S.A. (California).

montana WANG & SÆTHER, 1993: *Entomologica Scandinavica* **24**(2): 212 (*Thalassosmittia*). Type-locality: "China: Xizang (Tibet), Wangdong, Cuona County (91°45'E, 27°49'N), 2500 m". — Distr.: **PA**: China (Tibet).

nemalione (TOKUNAGA, 1936): *Philippine Journal of Science* **60**(3): 305 (*Spaniotoma* (*Smittia*)). Type-locality: "Japan . . . Seto, Wakayama Prefecture". — Distr.: **PA**: Japan.

pacifica (SAUNDERS, 1928): *Annals of the Entomological Society of America* **21**(4): 523 (*Camptocladius*). Type-locality: {Canada} "Nanaimo district, B. C." [B. C. = British Columbia]. — Distr.: **NE**: Canada (British Columbia), U.S.A. (Alaska, California).

thalassophila (BEQUAERT & GOETGHEBUER, 1914): *Annales de la Société Entomologique de Belgique* **57**: 373 (*Camptocladius*). Type-locality: {littoral Belge} "à Zeebrugge (Flandre Occidentale)" [= at Zeebrugge (western

Flanders)] [littoral Belge = Belgian seashore]. — Distr.: **PA**: Belgium, Croatia, France, Germany, Great Britain, Greece, Ireland, Italy, Netherlands, Romania, Spain. [**Note**]

giordanisoikai (MARCUZZI, 1949): *Hydrobiologia* **1**(2): 196 (*Smittia*; as "*giordani-soikai*"). Type-locality: {Italy} Venezia, a small "barena" near to S. Giacomo".

tusimoefea (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(2): 82 (*Rheocricotopus* (*Paracricotopus*)). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan"; [p. 82] "Uchiyama". — Distr.: **PA**: Japan.

sp.: SPIES & REISS, 1996: *Spixiana Supplement* **22**: 85 (*Thalassosmittia*). Locality: "Brazil". — Distr.: **NT**: Brazil.

Genus **THIENEMANNIA** KIEFFER

THIENEMANNIA KIEFFER, 1909: *Bulletin de la Société d'Histoire Naturelle de Metz* **26**: 49. Type-species: *Thienmannia gracilis* Kieffer, 1909, by monotypy.

SYMMETRIOCNEMUS THIENEMANN, 1937: *Mitteilungen Entomologischen Gesellschaft zu Halle* **15**: 30. Type-species: *Metriocnemus clavaticornis* Kieffer, 1911 [= *Thienmannia gracilis* Kieffer, 1909], by original designation. Synonymized with *Thienmannia* Kieffer, 1909, by Brundin (1956: *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 134).

fulvofasciata (KIEFFER, 1921): *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 84 (*Metriocnemus*). Type-locality: [Germany] "Sleswig-Holstein, larves dans un lac" [= Schleswig-Holstein, larvae in a lake]. — Distr.: **PA**: France, Germany, Great Britain, Luxembourg, Slovakia, Spain, Switzerland.

fuscitheca BHATTACHARYA, DUTTA & CHAUDHURI, 1986: *Journal of the Bengal Natural History Society* (New Series) **4**(1): 41 (*Thienemannia*). Type-locality: {India} "West Bengal, Darjeeling". — Distr.: **OR**: India (West Bengal). [**Note**]

gracei (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 312 (*Metriocnemus*). Type-locality: [Great Britain] "Ilkley, Yorks." [Yorks. = Yorkshire]. — Distr.: **PA**: Austria, **?**Azores, France, Germany, Great Britain,

Lebanon, Netherlands, Russia (NET), Spain, Switzerland; **OR**: China (Zhejiang).

gracilis KIEFFER, 1909: *Bulletin de la Société d'Histoire Naturelle de Metz* **26**: 49 (*Thienmannia*). Type-locality: {Allemagne} [= Germany] "Sauerland" ‖►Type-locality: [Germany, Westphalia] "an der Glörtalsperre und Fuelbeckertalsperre" [= on the Glör Dam and Fülbeck Dam] in Kieffer & Thienemann, 1909: *Jahresberichte des Westfälischen Provinzial-Vereins für Wissenschaft und Kunst* **37**: 33◄‖. — Distr.: **PA**: Austria, Belgium, Corsica, Denmark, Faroe Islands, Finland, France, Germany, Great Britain, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Romania, Russia (CET), Spain, Sweden, Switzerland, ¶Yugoslavia.

clavaticornis (KIEFFER, 1911): *Bulletin de la Société Entomologique de France* **1911**: 201 (*Metriocnemus*). Type-locality: Not given ‖►Type-locality: [Germany, Westphalia] "Quelle an der linken Lasbecker Aa" [= Spring on the left Lasbecker Aa] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 78◄‖.

borealis KIEFFER, 1915: *Zoologische Jahrbücher, Abteilung Systematik, Ökologie und Geographie der Tiere* **3**: 114 (*Thienemannia*). Type-locality: {Faroes} "Wasserfall bei Frodebö" [= waterfall at Frodebö].

lobata (KIEFFER in THIENEMANN & KIEFFER, 1916): *Archiv für Hydrobiologie Supplement* **2**(3): 513 (*Metriocnemus*; as var. of *clavaticornis* Kieffer, 1911). Type-locality: {Sweden} "Quellrinnsal oberhalb des Kalkofens am Tinkarp; zwischen Buchenlaub" [= Spring-channel above the lime kiln at Tinkarp; among beech leaves]. [**Note**]

miricornis (GOETGHEBUER, 1934): *Bulletin et Annales de la Société Entomologique de Belgique* **74**(10): 346 (*Cricotopus*). Type-locality: [Germany] "Larves dans une source à 1000 m. d'altitude (G.-P.)" [= Larvae in a spring at an altitude of 1000 metres (Garmisch-Partenkirchen)].

libanica LAVILLE & MOUBAYED, 1985: *Annales de Limnologie* **21**(1): 77

(*Thienemannia*). Type-locality: "Liban, torrent Yammouné, Chlifa" [= Lebanon, Yammouné stream, Chlifa]. — Distr.: **PA**: Denmark, France, Germany, Lebanon, Luxembourg, Portugal, Spain.

lutea BHATTACHARYA, DUTTA & CHAUDHURI, 1986: *Journal of the Bengal Natural History Society* (New Series) **4**(1): 43 (*Thienemannia*). Type-locality: {India} "West Bengal, Jorbanglow". — Distr.: **OR**: India (West Bengal). [**Note**]

paasivirtai TUISKUNEN in TUISKUNEN & LINDEBERG, 1986: *Annales Zoologici Fennici* **23**(4): 386 (*Thienemannia*). Type-locality: "Finland, Le, Enontekiö, Pikku Malla, Kaakkurilampi (767:25)". — Distr.: **PA**: Finland.

pilinucha SÆTHER, 1985: *Aquatic Insects* **7**(2): 127 (*Thienemannia*). Type-locality: "Le Conte Creek, Sevier Co., Tennessee, U.S.A.". — Distr.: **NE**: U.S.A. (Tennessee).

Genus **THIENEMANNIELLA** KIEFFER

THIENEMANNIELLA KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 201 (as subgenus of *Corynoneura* Winnertz, 1846). Type-species: *Corynoneura clavicornis* Kieffer, 1911, by subsequent designation of Goetghebuer in Goetghebuer & Lenz (1939: *Die Fliegen der Palaearktischen Region* **13f**: 7).

KRIBIOCLADIUS KIEFFER, 1923: *Annales de la Société Entomologique de France* **92**: 181. Type-species: *Kribiocladius flava* Kieffer, 1923, by monotypy. **Syn. nov.** of *Thienemanniella* Kieffer, 1911. [**Note**]

MICROLENZIA KIEFFER, 1925: *Annales de la Société Entomologique de France* **94**: 54. Type-species: *Microlenzia fusca* Kieffer, 1925 [= *Corynoneura acuticornis* Kieffer, 1912], by original designation. Synonymized with *Thienemanniella* Kieffer, 1911, by Edwards (1929: *Transactions of the Entomological Society of London* **77**: 366).

absens FU, SÆTHER & WANG, 2010: *Zootaxa* **2431**: 4 (*Thienemanniella*). Type-locality: "CHINA: Zhejiang Province, Taishun County, Wuyanling (27°30′N, 119° 46′E), 1611 m a.s.l.". — Distr.: **PA**: China (Shaanxi); **OR**: China (Zhejiang).

acuticornis (KIEFFER, 1912): *Bulletin de la Société Entomologique de France* **1912**: 101

(*Corynoneura*). Type-locality: [Germany] "Reinhardsbrunn". — Distr.: **PA**: Austria, Balearic Islands, Bulgaria, Estonia, Finland, France, Germany, Great Britain, Ireland, Italy, Lebanon, Morocco, Netherlands, Romania, Russia (NET), Spain, Tunisia, Turkey; **OR**: Nepal. [**Note**]

morosa (EDWARDS, 1924): *Entomologist's Monthly Magazine* **60**: 185 (*Corynoneura* (*Thienemanniella*)). Type-locality: [Great Britain] "Gorge of Dart, S. Devon".

fusca (KIEFFER, 1925): *Annales de la Société Entomologique de France* **94**: 54 (*Microlenzia*). Type-locality: "larves habitant un lac de Lunz en Autriche" [= larvae inhabit a lake at Lunz in Austria].

akagiquarta KIKUCHI & SASA, 1994: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 116 (*Thienemanniella*). Type-locality: {Japan} [p. 112] "at the side of a fountain stream on the slope of Mount Akagi (Gunma)". — Distr.: **PA**: Japan.

antennata FREEMAN, 1953: *Proceedings of the Royal Entomological Society* (B) **22**(11/12): 212 (*Thienemanniella*). Type-locality: [South Africa] "Berg River, French Hoek". — Distr.: **AF**: Ghana, South Africa, Zimbabwe.

boltoni HESTENES & SÆTHER, 2000: *Late 20th Century Research on Chironomidae*: 110 (*Thienemanniella*). Type-locality: "USA: Ohio, Franklin Co., spring stream tributary to Scioto River". — Distr.: **NE**: Canada (Nova Scotia, Ontario, Prince Edward Island); U.S.A. (Minnesota, North Carolina, Ohio).

burjatica MAKARCHENKO & MAKARCHENKO in MAKARCHENKO, MAKARCHENKO & BAZOVA, 2010: *Evraziatskii Entomologicheskii Zhurnal* **9**(3): 316 (*Thienemanniella*). Type-locality: {Russia, East Siberia} **r. Uda, g. Ulan-Udé, novyi most** [= River Uda, town of Ulan-Udé, new bridge]. — Distr.: **PA**: Russia (East Siberia).

caspersi SÆTHER in SÆTHER & FERRINGTON, 2003: *Zootaxa* **322**: 2 (*Thienemanniella*; as nom. nov. for *Thienemaniella similis* Caspers & Reiss, 1989, nec *Corynoneura similis* Malloch, 1915). — Distr.: **PA**: Austria, Germany, Turkey.

caspersi SÆTHER, 2002: *Chironomus* **15**: 34 (*Thienemanniella*; as nom. nov. for

Thienemaniella similis Caspers & Reiss, 1989, nec *Corynoneura similis* Malloch, 1915). Name not made available – only published electronically without fulfilling the criteria necessary for publication contrary to Article 8.6 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

similis CASPERS & REISS, 1989: *Entomofauna* **10**(8): 144 (*Thienemanniella*). Type-locality: "Bahnstation Soganli W Sarikamis, 2100 m über NN (Provinz Kars, Osttürkei)" [= Railway station at Soganli west of Sarikamis, 2100 metres above sea-level (Kars Province, eastern Turkey)]. **Preoccupied**. Junior secondary homonym of *Corynoneura similis* (Malloch, 1915) – the latter is now a valid species of *Thienemaniella* Kieffer, 1911.

cavata FU, HESTENES & SÆTHER, 2010: *Zootaxa* **2338**: 6 (*Thienemanniella*). Type-locality: "GHANA: Brong Ahafo Region, Kintampo Falls". — Distr.: **AF**: Ghana.

chuzeduodecima SASA, 1984: *Research Report from the National Institute for Environmental Studies* **70**: 90 (*Thienemanniella*). Type-locality: [Japan] {Nikko National Park} "a small stream on the bank of Lake Chuzenji". — Distr.: **PA**: Japan, Russia (NET, Far East).

clavicornis (KIEFFER, 1911): *Bulletin de la Société Entomologique de France* **1911**: 201 (*Corynoneura*; as "*clavicronis*"). Type-locality: Not given ‖►Type-localities: [Germany] "am Loher Zufluß der Glörtalsperre" [= at the Loher inflow to the Glör Dam]; "an der Glörtalsperre" [= at the Glör Dam]; "aus Fontinalisbüschen des Hasperbaches" [= from *Fontinalis* tufts of the Hasper brook]; in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 81◄‖. Senior primary homonym of *Corynoneura clavicornis* Kieffer, 1925. — Distr.: **PA**: Algeria, Austria, Azores, Belgium, Bulgaria, **?**Canary Islands, Czech Republic, Estonia, Finland, France, Germany, Great Britain, Hungary, **?**Iceland, Ireland, Italy, Kaliningrad, Lebanon, Madeira, Moldova, Mongolia, Netherlands, Norway, Poland, Portugal, Romania, Russia (CET, NET, SET, Far East, West Siberia), Slovakia, Spain, Turkey; **OR**: China

(Sichuan, Zhejiang).

clavicronis: incorrect original spelling.

pseudosimilis (GOETGHEBUER, 1921): *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 73 (*Corynoneura*). Type-locality: {Belgique} [p. 73] "Virton"; [p. 191] "Virton (H. B.)" [H. B. = Haute Belgique], [Belgique = Belgium].

elana (ROBACK, 1957): *Proceedings of the Academy of Natural Sciences of Philadelphia* **109**: 10 (*Corynoneura* (*Thienemanniella*)). Type-locality: [U.S.A.] "Lemon's Grove, three miles south of Kamas, Summit County, Utah". — Distr.: **NE**: U.S.A. (Utah).

flavescens (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 367 (*Corynoneura* (*Thienemanniella*)). Type-locality: [Great Britain] "Staveley, Westmorland". — Distr.: **PA**: Balearic Islands, France, Great Britain, Ireland, Russia (NET).

? *flava* (KIEFFER, 1925): *Annales de la Société Entomologique de France* **94**: 54 (*Microlenzia*). Type-locality: [Czech Republic or Slovakia] "larves aquatiques en Tchéco-Slovaquie" [= larvae aquatic in Czechoslovakia]. **Preoccupied**. Junior secondary homonym of *Thienemanniella flava* (Kieffer, 1923). **Questionable synonym**.

flaviscutella (TOKUNAGA, 1936): *Tenthredo* **1**(1): 39 (*Corynoneura* (*Thienemanniella*)). Type-locality: "Japan (Honshu) . . . Yamashima, Kyoto". — Distr.: **PA**: Japan.

fuga LEHMANN, 1979: *Spixiana Supplement* **3**: 47 (*Thienemanniella*). Type-locality: [Democratic Republic of the Congo] "Kalengo, Kivu-Gebiet, Zaire". — Distr.: **AF**: D.R.Congo, South Africa, Tanzania.

ginzanquerea SASA & SUZUKI, 2001: *Tropical Medicine* **43**(1/2): 23 (*Thienemanniella*). Type-locality: {Hokkaido, Japan} [p. 8-9] "Ginzan". — Distr.: **PA**: Japan; **OR**: China (Fujian).

ginzanquinta (SASA & SUZUKI, 1998): *Tropical Medicine* **40**(1): 17 (*Corynoneura*). Type-locality: {Japan} "Ginzan, Hokkaido". — Distr.: **PA**: China (Shaanxi), Japan;

OR: China (Yunnan).

gotopallida SASA & SUZUKI, 2001: *Tropical Medicine* **42**(3/4): 163 (*Thienemanniella*). Type-locality: {Goto Islands, Western Japan} "Wani River". — Distr.: **PA**: Japan.

hainanensis FU, SÆTHER & WANG, 2010: *Zootaxa* **2431**: 11 (*Thienemanniella*). Type-locality: "CHINA: Hainan Province, Wanning County, Diaoluo Town (19°4′ N, 110° 28′ E), 1499 m a.s.l.". — Distr.: **OR**: China (Hainan).

liae PAGGI, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 247 (*Thienemanniella*) Type-locality: "ARGENTINA: Buenos Aires Province, Sierra de la Ventana, Villa Arcadia, Sauce Grande Stream, 38°53'S, 61°58'W". — Distr. **NT**: Argentina.

lineola FREEMAN, 1953: *Proceedings of the Royal Entomological Society* (B) **22**(11/12): 212 (*Thienemanniella*). Type-locality: [South Africa] "Berg River, French Hoek Forest Reserve". — Distr.: **AF**: D.R.Congo, Ethiopia, South Africa, Zimbabwe.

lobapodema HESTENES & SÆTHER, 2000: *Late 20th Century Research on Chironomidae*: 117 (*Thienemanniella*). Type-locality: "CANADA: Ontario, Experimental Lakes Area, Lake 122". — Distr.: **NE**: Canada (Manitoba, Northwest Territories, Ontario), U.S.A. (Alabama, Florida, Georgia, Michigan, Minnesota, North Carolina, Ohio, South Carolina).

lutea (EDWARDS, 1924): *Entomologist's Monthly Magazine* **60**: 184 (*Corynoneura* (*Thienemanniella*)). Type-locality: [Great Britain] "Cardington, Beds" [Beds = Bedfordshire]. — Distr.: **PA**: France, Great Britain, Macedonia.

majuscula (EDWARDS, 1924): *Entomologist's Monthly Magazine* **60**: 183 (*Corynoneura* (*Thienemanniella*)). Type-locality: [Great Britain] "Mildenhall, Suffolk". — Distr.: **NE**: Canada (Ontario); **PA**: Austria, Denmark, Finland, France, Germany, Great Britain, Ireland, Japan, Morocco, Netherlands, Norway, Poland, Russia (NET, Far East), Spain.

medialis SUBLETTE & SASA, 1994: *Spixiana Supplement* **20**: 28 (*Thienemanniella*). Type-locality: {Guatemala} "Rincon, leaf litter at small waterfall C". — Distr.: **NT**:

Guatemala.

minuscula (BRUNDIN, 1949): *Reports from the Institute of Freshwater Research, Drottningholm* **30**: 833 (*Corynoneura*). Type-locality: [Sweden] "Växjösjön in Småland". — Distr.: **NE**: Canada (Northwest Territories, Ontario); **PA**: Austria, Finland, France, Germany, Norway, Russia (NET, Far East). Spain, Sweden.

nagaramaculata SASA, 1989: *Research Report Toyama Prefectural Environmental Pollution Research Center* **1989**: 68 (*Thienemanniella*). Type-locality: {Japan} "at the side of the Nagara River". — Distr.: **PA**: Japan.

nipponica (TOKUNAGA, 1936): *Tenthredo* **1**(1): 38 (*Corynoneura* (*Thienemanniella*)). Type-locality: "Japan (Honshu) . . . Kitashirakawa, Kyoto". — Distr.: **PA**: Japan; **OR**: China (Sichuan).

obscura BRUNDIN, 1947: *Arkiv för Zoologi* **39A**: 49 (*Thienemanniella*). Type-locality: {Sweden} "Sm. Gem. Söraby . . . am Bach zwischen Innaren und Helgasjön" [= Småland, Söraby Municipality . . . on a brook between Innaren and Helgasjön]. — Distr.: **PA**: Austria, Finland, France, Germany, Great Britain, Ireland, Italy, **?**Luxembourg, **?**Netherlands, Russia (Far East), Slovakia, Spain, Sweden; **OR**: China (Yunnan).

ogasaquardecima SASA & SUZUKI, 1997: *Medical Entomology and Zoology* **48**(4): 337 (*Thienemanniella*). Type-locality: {Japan, Ogasawara Islands} "Shigure Dam". — Distr.: **OC**: Bonin Islands.

ogasaquindecima SASA & SUZUKI, 1997: *Medical Entomology and Zoology* **48**(4): 338 (*Thienemanniella*). Type-locality: {Japan, Ogasawara Islands} "Shigure Dam on Chichijima". — Distr.: **OC**: Bonin Islands.

okigrata SASA, 1990: *Japanese Journal of Experimental Medicine* **60**(3): 134 (*Thienemanniella*). Type-locality: {Nansei Islands, southern Japan} "at the side of Heinan River, Okinawa". — Distr.: **OR**: Japan.

oyabedilata SASA, KAWAI & UENO, 1988: *Research Report Toyama Prefectural Environmental Pollution Research Center* **1988**: 57 (*Thienemanniella*). Type-locality: [Summary, p. 27] "Oyabe River Basin, western Toyama Prefecture . . .

Japan"; [p. 57] "at C-4, under Futomibashi Bridge of Oyabe River". — Distr.: **PA**: Japan, Russia (Far East).

partita SCHLEE, 1968: *Stuttgarter Beiträge zur Naturkunde* **180**: 17 (*Thienemanniella*). Type-locality: [Germany] "Fuldastation „Wasserkuppe 11" („Halbe Fulda")". — Distr.: **PA**: Austria, France, Germany, Italy.

safi LEHMANN, 1979: *Spixiana Supplement* **3**: 48 (*Thienemanniella*). Type-locality: [Democratic Republic of the Congo] "Kalengo, Kivu-See-Gebiet, Zaire" [= Kalengo, Kivu Lake region, Zaire]. — Distr.: **AF**: D.R.Congo, Ethiopia, South Africa, Tanzania.

sichuana FU, SÆTHER & WANG, 2010: *Zootaxa* **2431**: 20 (*Thienemanniella*). Type-locality: "CHINA: Sichuan Province, Daocheng County, Daocheng River (29°11′ N, 100°06′ E), 3700 m a.s.l.". — Distr.: **OR**: China (Sichuan).

similis (MALLOCH, 1915): *Bulletin of the Illinois State Laboratory of Natural History* **10**: 413 (*Corynoneura*). Type-locality: [U.S.A.] "Havana, Ill." [Ill. = Illinois]. — Distr.: **NT**: Puerto Rico; **NE**: U.S.A. (Florida, Georgia, Illinois, Michigan, Minnesota, New Mexico, New York, North Carolina, Ohio, South Carolina, Texas). Senior secondary homonym of *Thienemaniella similis* Caspers & Reiss, 1989.

spreta (ROBACK, 1962): *Notulae Naturae* **355**: 2 (*Corynoneura* (*Thienemanniella*)). Type-locality: [Panama] "Holbrook Air Force Base, Curundu, Canal Zone". — Distr.: **NT**: Guatemala, Panama, St. Vincent.

sanctivincenta SÆTHER, 1981: *Entomologica Scandinavica Supplement* **16**: 37 (*Thienemanniella*). Type-locality: "8 m a.s.l., large river bed, Rabacca River, St. Vincent".

taurocapita HESTENES & SÆTHER, 2000: *Late 20th Century Research on Chironomidae*: 119 (*Thienemanniella*). Type-locality: "USA: Ohio, Delaware Co., Olentangy River, Highbanks Metro Park". — Distr.: **NE**: U.S.A. (Michigan, North Carolina, Ohio).

tiunovae MAKARCHENKO & MAKARCHENKO, 2006: *Evraziatskii Entomologicheskii*

Zhurnal **5**(2): 160 (*Thienemanniella*). Type-locality: **o-v Sakhalin, Noglikskii r-n, r. Pil′tun** [= Sakhalin Island, Nogaiksky District, River Pil′tun]. — Distr.: **NE**: Canada (Northwest Territories); **PA**: Russia (Far East).

togamijika SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 166 (*Thienemanniella*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 114] "Toga River". — Distr.: **PA**: Japan; **OR**: China (Hunan).

tonewquerea SASA & TANAKA, 2002: *Annual Report of the Gunma Prefecture Institute of Public Health and Environmental Science* **34**: 43 (*Thienemanniella*). Type-locality: {Japan} [Title, p. 27] "Tone River, Gunma Prefecture"; [p. 43] "at Taisho Bridge". — Distr.: **PA**: Japan.

triangula FU, SÆTHER & WANG, 2010: *Zootaxa* **2431**: 24 (*Thienemanniella*). Type-locality: "CHINA: Sichuan Province, Ganzi State, Yajiang County (31°38′N, 99° 58′E), 2000 m a.s.l.". — Distr.: **OR**: China (Sichuan, Yunnan).

trivittata GOETGHEBUER, 1935: *Revue de Zoologie et de Botanique Africaines* **27**: 366 (*Thienemanniella*). Type-locality: [Democratic Republic of the Congo] "Escarpment Kalasha : Chambi". — Distr.: **AF**: D.R.Congo, South Africa; **AU**: Australia (Australian Capital Territory, New South Wales).

analis FREEMAN, 1953: *Proceedings of the Royal Entomological Society* (B) **22**(11/12): 212 (*Thienemanniella*). Type-locality: [South Africa] "Berg River, French Hoek Forest Reserve".

tusimuefea SASA & SUZUKI, 1999: *Tropical Medicine* **41**(2): 107 (*Thienemanniella*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 107] "Azugawa". — Distr.: **PA**: Japan.

tusimufegea SASA & SUZUKI, 1999: *Tropical Medicine* **41**(2): 107 (*Thienemanniella*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]. — Distr.: **PA**: Japan; **OR**: China (Fujian, Hunan).

vittata (EDWARDS, 1924): *Entomologist's Monthly Magazine* **60**: 184 (*Corynoneura*

(*Thienemanniella*)). Type-locality: [Great Britain] "Newtown, N. Wales". — Distr.: **PA**: Austria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Macedonia, Morocco, Norway, Portugal, Romania, Slovakia, South Korea, Spain, Sweden, Turkey.

wuyiensis FU, SÆTHER & WANG, 2010: *Zootaxa* **2431**: 29 (*Thienemanniella*). Type-locality: "CHINA: Jiangxi Province, Wuyi Mountain (27°28'N,118°1'E), 1800m a.s.l.". — Distr.: **OR**: China (Jiangxi).

xena (ROBACK, 1957): *Monographs of the Academy of Natural Sciences of Philadelphia* **9**: 61 (*Corynoneura* (*Thienemanniella*)). Type-locality: [U.S.A.] "Spring House, Pa. near U.S. route 309" [Pa. = Pennsylvania]. — Distr.: **NE**: Canada (Alberta, Manitoba, Northwest Territories, Ontario), U.S.A. (Alaska, Florida, Georgia, Illinois Michigan, New York, North Carolina, Ohio, Pennsylvania, South Carolina, South Dakota); **PA**: China (Liaoning, Ningxia, Shandong, Xinjiang), Russia (Far East); **OR**: China (Fujian, Yunnan).

yakysetea SASA & SUZUKI, 2000: *Tropical Medicine* **42**(2): 100 (*Thienemanniella*). Type-locality: {Yakushima Island, Southwestern Japan} "Miyanoura River". — Distr.: **PA**: Japan; **OR**: China (Hunan).

sp.: COFFMAN, YURASITS & DE LA ROSA, 1988: *Spixiana Supplement* **14**: 85 (*Thienemanniella*). Locality: "South India". — Distr.: **OR**: India (Kerala or Tamil Nadu).

sp.: ASHE, 1990: *Insects and the rain forests of South East Asia (Wallacea)*: 267 (*Thienemanniella*). Locality: {Indonesia} "Sulawesi". — Distr.: **OR**: Indonesia (Sulawesi).

sp. 1: HAASE & NOLTE, 2008: *Ecological Indicators* **8**(5): 607 (*Thienemanniella*). Locality: [Title] "streams in southeast Queensland, Australia". — Distr.: **AU**: Australia (Queensland).

sp. 2: HAASE & NOLTE, 2008: *Ecological Indicators* **8**(5): 607 (*Thienemanniella*). Locality: [Title] "streams in southeast Queensland, Australia". — Distr.: **AU**: Australia (Queensland).

Nomina dubia in THIENEMANNIELLA

brevidensi ŞAHIN, 1987: *Türk Zooloji Dergisi* **11**(3): 184 (*Thienemanniella*). Type-locality: {Turkey} "Sütlüce d. (Munzur ç. — Firat N., 39° 31' N, 39° 33' D, 1550 m)" [= Sütlüce Stream (Munzur Brook — Firat River, 39° 31' North, 39° 33' East, 1550 metres)]. [**Note**]

cubita (GARRETT, 1925): *Seventy New Diptera*: 10 (*Corynoneura*). Type-locality: [Canada] "Cranbrook, B.C. [B.C. = British Columbia]. — Distr.: **NE**: Canada (British Columbia). [**Note**]

emarginata KIEFFER, 1925: *Bulletin de la Société Entomologique de France* **1925**: 285 (*Thienemanniella*). Type-locality: [France] "Bitche (Moselle)".

flava (KIEFFER, 1923): *Annales de la Société Entomologique de France* **92**: 181 (*Kribiocladius*). Type-locality: "Cameroun : Kribi" [Cameroun = Cameroon]. Senior secondary homonym of *Thienemanniella flava* (Kieffer, 1925). [**Note**]

flavicornis (KIEFFER, 1929): *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg* **66**: 299 (*Microlenzia*). Type-locality: [Russia, Kaliningrad Region] "Hochfläche des Zehlaubruches" [= plateau of Zehlaubruch moorland].

flaviforceps KIEFFER, 1925: *Bulletin de la Société Entomologique de France* **1925**: 285 (*Thienemanniella*). Type-locality: [Poland] "Silésie" [= Silesia].

longicornis KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 103 (*Thienemanniella*). Type-locality: [Poland] "Silésie" [= Silesia].

longipalpis KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 165 (*Thienemanniella*). Type-locality: [Germany] "Westphalie : larve sur *Fontinalis* sp. dans la Diemel" [= Westphalia : larva on *Fontinalis* sp. in the Diemel] ‖ ► Type-locality: [Germany, Westphalia] "aus *Fontinalis* der Diemel bei Nieder-Marsberg" [= from *Fontinalis* in the Diemel at Nieder-Marsberg] in Thienemann, 1919: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst (Zoologische Sektion)* **47**: 33 ◄ ‖.

longipalpis THIENEMANN, 1919: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst (Zoologische Sektion)* **47**: 33

(*Thienemanniella*). Locality: [Germany, Westphalia] "aus *Fontinalis* der Diemel bei Nieder-Marsberg" [= from *Fontinalis* in the Diemel at Nieder-Marsberg]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

mallochi SUBLETTE, 1970: *Journal of the Kansas Entomological Society* **43**(1): 88 (*Thienemanniella*). Type-locality: [U.S.A.] "Brownsville, Texas . . . South Texas Gardens". [**Note**]

nana (KIEFFER, 1911): *Bulletin de la Société Entomologique de France* **1911**: 202 (*Corynoneura*). Type-locality: Not given ‖ ► Type-locality: [Germany] "in den Bachmoosen der Logrötke" [= in brook mosses of the Logrötke], in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 81 ◄ ‖.

nervosa KIEFFER, 1925: *Bulletin de la Société Entomologique de France* **1925**: 285 (*Thienemanniella*). Type-localities: [Poland] "Silésie" [= Silesia]; [Germany] "Bavière" [= Bavaria].

sphagnorum (KIEFFER, 1929): *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg* **66**: 300 (*Microlenzia*). Type-localities: [Russia, Kaliningrad Region] "Hochfläche des Zehlaubruches" [= plateau of Zehlaubruch moorland]; "im Inselblänkenwäldchen" [= in Inselblänken small woodland].

zavreli KIEFFER, 1925: *Bulletin de la Société Entomologique de France* **1925**: 285 (*Thienemanniella*; as "*Zavreli*"). Type-locality: [Czech Republic] "Bohême" [= Bohemia].

Unavailable names in THIENEMANNIELLA

munzuri ŞAHIN, 1980: *Firat Üniversitesi Veteriner Fakültesi Dergisi* **5**: 182 (*Thienemanniella*; as "*munzuri* sp .n. Şahin"). Locality: [Turkey] "Elazığ". Name not made available – not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

Genus **TOKUNAGAIA** SÆTHER

TOKUNAGAIA SÆTHER, 1973: *Canadian Entomologist* **105**(1): 56. Type-species: *Spaniotoma* (*Orthocladius*) *kibunensis* Tokunaga, 1939, by original designation.

SETUKOYUSURIKA SASA & SUZUKI, 2001: *Tropical Medicine* **42**(3/4): 161. Type-species: *Setukoyusurika gotoijeus* Sasa & Suzuki, 2001, by monotypy. Synonymized with *Tokunagaia* Sæther, 1973, by Yamamoto (2004: *Makunagi* **21**: 104).

ambigua MAKARCHENKO & MAKARCHENKO, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 182 (*Tokunagaia*). Type-locality: "RUSSIAN FAR EAST: Jewish Autonomous Region, Khabarovsk Territory, Amur River Basin, Kuldur River". — Distr.: **PA**: Russia (Far East).

asamaquinta (SASA & HIRABAYASHI, 1991): *Japanese Journal of Sanitary Zoology* **42**(2): 124 (*Eukiefferiella*). Type-locality: [Japan] [p. 117] "at Asama-Onsen, in the suburbs of Matsumoto City, Nagano Prefecture". — Distr.: **PA**: Japan.

biconvexa MAKARCHENKO & MAKARCHENKO, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 184 (*Tokunagaia*). Type-locality: "RUSSIAN FAR EAST: Kurile Islands, Shiashkotan Island, waterfall in Zakatnaya Bay". — Distr.: **PA**: Russia (Far East).

chuzenona (SASA, 1984): *Research Report from the National Institute for Environmental Studies* **70**: 74 (*Eukiefferiella*). Type-locality: [Japan] {Nikko National Park} "Lake Chuzenji". — Distr.: **PA**: Japan, Russia (Far East).

excellens (BRUNDIN, 1956): *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 89 (*Eukiefferiella*). Type-locality: "im Katterjokk (Reg. arctica) bei Riksgränsen (Schwedisch-Lappland)" [= in the Katterjokk (Arctic region) near Riksgränsen (Swedish Lapland)] [Lectotype designation in Halvorsen & Sæther, 1987: *Entomologica Scandinavica Supplement* **29**: 179, "Katterjokk, Riksgränsen, Sverige"] [Sverige = Sweden]. — Distr.: **NE**: Canada (British Columbia); **PA**: Finland, Norway, Sweden.

fasciata LIU & WANG, 2006: *Zootaxa* **1183**: 45 (*Tokunagaia*). Type-locality: "CHINA: Yunnan Province, Eryuan County, Niujie Township, Futianlin, Meici River,

(26°21'N, 100°02'E), 2262 m a.s.l.". — Distr.: **OR**: China (Yunnan).

fujisexta (SASA, 1985): *Research Report from the National Institute for Environmental Studies* **83**: 126 (*Eukiefferiella*). Type-locality: {Japan, Mount Fuji area} "on the shore of Lake Motosu". — Distr.: **PA**: Japan.

gotoijea (SASA & SUZUKI, 2001): *Tropical Medicine* **42**(3/4): 161 (*Setukoyusurika*). Type-locality: {Goto Islands, Western Japan} "Fukue". — Distr.: **PA**: Japan.

ikiopea (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(3): 166 (*Eukiefferiella*). Type-locality: [Title, p. 143] "Western Japan. . . . Iki Island"; [p. 166] "Umenoki Dam". — Distr.: **PA**: Japan.

ikip MAKARCHENKO & MAKARCHENKO, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 186 (*Tokunagaia*). Type-locality: "RUSSIAN FAR EAST: Kurile Islands, Simushir Island, Malaya Bay". — Distr.: **PA**: Russia (Far East).

interdicta MAKARCHENKO & MAKARCHENKO, 2009: *Evraziatskii Entomologicheskii Zhurnal* **8**(4): 421 (*Tokunagaia*). Type-locality: "Prosiolochnaya River, Lazovsky Nature Reserve, Primorye Territory, Russian Far East". — Distr.: **PA**: Russia (Far East).

jintunonadecima (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 69 (*Hydrobaenus*). Type-locality: [Japan] [p. 61, Introduction] "in Toyama Prefecture along the main stream of Jinzu River and its tributaries"; [p. 69] "at S. 6, Yawata". — Distr.: **PA**: Japan.

jintuquinta (SASA, 1990): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1990**: 39 (*Eukiefferiella*). Type-locality: {Japan, Toyama, Jintsu River} "at St. 2, Kiritani-hashi". — Distr.: **PA**: Japan.

jintuseptdecima (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 67 (*Hydrobaenus*). Type-locality: [Japan] [p. 61, Introduction] "in Toyama Prefecture along the main stream of Jinzu River and its tributaries". — Distr.: **PA**: Japan. [**Note**]

jintuseptidecima: incorrect subsequent spelling.

kamiarata SASA & HIRABAYASHI, 1993: *Japanese Journal of Sanitary Zoology* **44**(4): 369 (*Tokunagaia*). Type-locality: {Nagano, Japan} [p. 362] "Kamikochi"; [p. 369] "at Kamonji". — Distr.: **PA**: Japan.

kamicedea (SASA & HIRABAYASHI, 1993): *Japanese Journal of Sanitary Zoology* **44**(4): 377 (*Pseudosmittia*). Type-locality: {Nagano, Japan} [p. 362] "Kamikochi"; [p. 377] "at Nishiitoya". — Distr.: **PA**: Japan.

kibunensis (TOKUNAGA, 1939): *Philippine Journal of Science* **69**(3): 318 (*Spaniotoma* (*Orthocladius*)). Type-locality: "Honshu, Japan . . . Kibune, Kyoto". — Distr.: **PA**: Japan, Russia (Far East).

kinkaensis (SASA, 1989): *Research Report Toyama Prefectural Environmental Pollution Research Center* **1989**: 69 (*Synorthocladius*). Type-locality: {Japan} "on the top of Mount Kinkazan, Gifu". — Distr.: **PA**: Japan.

kurobedilata (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 54 (*Mesosmittia*). Type-localities: [Japan] [p. 41] "Kurobe River Basin", [p. 54] "Aimoto"; "Nekomata"; "Kurobe Bridge". — Distr.: **PA**: Japan.

kurobespeciosa SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 54 (*Tokunagaia*). Type-locality: [Japan] [p. 41] "Kurobe River Basin", [p. 54] "Unazuki Town". — Distr.: **PA**: Japan.

kurodeea (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 19 (*Hydrobaenus*). Type-locality: [Japan] "at the side of Kuroyon Dam". — Distr.: **PA**: Japan.

kuroefea (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 20 (*Hydrobaenus*). Type-locality: [Japan] "at the side of Kuroyon Dam". — Distr.: **PA**: Japan.

kurofegea (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**December**): 21 (*Hydrobaenus*). Type-locality: [Japan] "at the side of Kuroyon Dam". — Distr.: **PA**: Japan.

moribrevis (SASA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 40 (*Hydrobaenus*). Type-locality: {Japan} [p. 38] "at the side of a stream in the Castle Park of Morioka City". — Distr.: **PA**: Japan.

morigrandis (SASA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 41 (*Hydrobaenus*). Type-locality: {Japan} [p. 38] "at the side of a stream in the Castle Park of Morioka City". — Distr.: **PA**: Japan.

obriaini HAYES & MURRAY, 1988: *Entomologica Scandinavica* **18**(4): 361 (*Tokunagaia*). Type-locality: "Canada, Northwest Territories, Bathurst Island, 75°24′ N, 100°24′ W" [type-locality now in Nunavut Province]. — Distr.: **NE**: Canada (Nunavut).

oleantoni MAKARCHENKO & MAKARCHENKO, 2007: *Contributions to the Systematics and Ecology of Aquatic Diptera*: 188 (*Tokunagaia*). Type-locality: "RUSSIAN FAR EAST: South part of the Kamchatka Peninsula, Ozernaya River". — Distr.: **PA**: Russia (Far East).

oyabebrevicosta (SASA, KAWAI & UENO, 1988): *Research Report Toyama Prefectural Environmental Pollution Research Center* **1988**: 47 (*Eukiefferiella*). Type-locality: [Summary, p. 27] "Oyabe River Basin, western Toyama Prefecture . . . Japan"; [p. 47] "at Y-5, Fukunobashi Bridge". — Distr.: **PA**: Japan.

parexcellens TUISKUNEN in TUISKUNEN & LINDEBERG, 1986: *Annales Zoologici Fennici* **23**(4): 387 (*Tokunagaia*). Type-locality: "Finland, Le, Enontekiö, Jatuni (760:32)". — Distr.: **PA**: Finland, Norway, Mongolia, Russia (Far East).

pseudorowensis MAKARCHENKO & MAKARCHENKO, 2004: *Flora and fauna of Sakhalin Island*: 220 (*Tokunagaia*). Type-locality: [Russia] **o-v Sakhalin, Tymovskii r-n, r. Tym′ (verkhnee techenie), v 15 km na vostok ot pos. Palevo** [= Sakhalin Island, Tymovsky District, River Tym′ (upper course), 15 kilometres east of the village of Palevo]. — Distr.: **PA**: Russia (Far East).

quadrulata LIU & WANG, 2006: *Zootaxa* **1183**: 48 (*Tokunagaia*). Type-locality: "CHINA:

Sichuan Province, Litang County, Cogsum, (29°42'N, 100°22'E), 4170 m a.s.l.". — Distr.: **OR**: China (Sichuan).

rectangularis (GOETGHEBUER, 1940): *Bulletin et Annales de la Société Entomologique de Belgique* **80**(1): 61 (*Orthocladius*). Type-locality: [Introduction, p. 55] "aux environs d'Abisko, en Laponie Suédoise" [= in the vicinity of Abisko, in Swedish Lapland]; [p. 62] "près d'une source à 900 m. d'altitude" [= near a spring at an altitude of 900 metres]. — Distr.: **PA**: Austria, China (Liaoning), Finland, France, Italy, Mongolia, Norway, Romania, Russia (NET, Far East), Sweden, Switzerland, Turkey.

oestbyei (SÆTHER, 1968): *Archiv für Hydrobiologie* **64**(4): 462 (*Eukiefferiella*). Type-localities: {Finse Area, Norway} "Sta. A"; "Sta. C".

oestbyi: incorrect subsequent spelling.

rowensis (SÆTHER, 1969): *Bulletin of the Fisheries Research Board of Canada* **170**: 58 (*Adactylocladius*). Type-locality: [Canada] "large mountain stream, Rowe Creek, above highway to Cameron Lake, Waterton National Park, Alta." [Alta. = Alberta]. — Distr.: **NE**: Canada (Alberta, Ontario); **PA**: Russia (Far East).

scutellata (BRUNDIN, 1956): *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 89 (*Eukiefferiella*). Type-locality: "Schwedisch-Lappland: an einem kleinen Bach am See Vassijaure" [= Swedish Lapland: on a small stream at Lake Vassijaure]. — Distr.: **PA**: Finland, Norway, Russia (NET, Far East), Sweden.

shofukudecima (SASA, 1998): *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 41 (*Pseudorthocladius*). Type-locality: {Japan} [Abstract, p. 14] "in the Shofuku Garden, . . . about 1 km from the mouth of Kurobe River". — Distr.: **PA**: Japan.

sikimiensis (SASA & SUZUKI, 1998): *Bulletin of Toyama Prefectural Environmental Pollution Research Center* **25**(3): 86 (*Eukiefferiella*). Type-locality: [Japan] "at Shikimi Pasture, Nagasaki". — Distr.: **PA**: Japan.

singula MAKARCHENKO & MAKARCHENKO, 2009: *Evraziatskii Entomologicheskii*

Zhurnal **8**(4): 426 (*Tokunagaia*). Type-locality: "environs of Pashkovo Village, Jewish Autonomous Region of Khabarovsk Territory, Russian Far East". — Distr.: **PA**: Russia (Far East).

spinosa LIU & WANG, 2006: *Zootaxa* **1183**: 50 (*Tokunagaia*). Type-locality: "CHINA: Guizhou Province, Fanjing Mountain Natural Conservation Area, Huguo Temple, (27°55'N, 108°41'E), 1300 m a.s.l.". — Distr.: **OR**: China (Guizhou, Yunnan).

subulata LIU & WANG, 2006: *Zootaxa* **1183**: 53 (*Tokunagaia*). Type-locality: "CHINA: Jilin Province, Antu County, Changbai Mountain, (43°07'N, 128°54'E), 1700 m a.s.l.". — Distr.: **PA**: China (Jilin), Russia (Far East).

tatyanae (MAKARCHENKO & MAKARCHENKO, 2006): *Russian Entomological Journal* **15**(1): 73 (*Chaetocladius*). Type-locality: {Russian Far East} "Ozernaya River, Kurilskoe Lake basin, Kamchatka Peninsula (South part)". — Distr.: **PA**: Russia (Far East).

togaduodecima SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 128 (*Tokunagaia*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 128] "at Momose". — Distr.: **PA**: Japan.

togaduodecima (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Eukiefferiella*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togaeudecima SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 127 (*Tokunagaia*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture". — Distr.: **PA**: Japan.

togaeudecima (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Eukiefferiella*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togaeunona SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 126 (*Tokunagaia*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 126] "at Momose". — Distr.: **PA**: Japan.

togaeunona (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Eukiefferiella*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togaeuoctava SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 125 (*Tokunagaia*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 125] "at Momose". — Distr.: **PA**: Japan.

togaeuoctava (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Eukiefferiella*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togaeuprima (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural*

Environmental Pollution Research Center **1992**: 110 (*Eukiefferiella*). Type-locality: [Japan] [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 110] "at Momose". — Distr.: **PA**: Japan.

togaeuprima (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Eukiefferiella*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togaeuseptima SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 125 (*Tokunagaia*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 125] "at Momose". — Distr.: **PA**: Japan.

togaeuseptima (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Eukiefferiella*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togaquardecima SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 129 (*Tokunagaia*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 129] "at an upstream site of Toga River". — Distr.: **PA**: Japan.

togatridecima SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 129 (*Tokunagaia*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern

mountainous part of Toyama Prefecture"; [p. 129] "at Momose". — Distr.: **PA**: Japan.

togatridecima (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Eukiefferiella*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togaundecima SASA & OKAZAWA, 1992: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 127 (*Tokunagaia*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 127] "at Momose". — Distr.: **PA**: Japan.

togaundecima (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Eukiefferiella*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

togauvea (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 147 (*Orthosmittia*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 147] "at Momose". — Distr.: **PA**: Japan.

tonollii (ROSSARO, 1983): *Bollettino della Societa Entomologica Italiana* **115**: 164 (*Eukiefferiella*). Type-locality: "Italy, Lombardia, Chiareggio; in a cold spring, 1500 m, o.s.l.". — Distr.: **PA**: Finland, Great Britain, Italy, Norway, Russia (Far East), Slovakia.

tusimolemea (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(2): 88 (*Hydrobaenus*). Type-

locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 88] "Ayumodoshi". — Distr.: **PA**: Japan.

tusimoneoa (SASA & SUZUKI, 1999): *Tropical Medicine* **41**(2): 90 (*Hydrobaenus*; [page 90] as "*tusimolemeus*", [Fig. 18, page 120] as "*tusimoneous*"). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 90] "Noubu". — Distr.: **PA**: Japan. [**Note**]

tusimolemeus: incorrect original spelling.

unicentrata LIU & WANG, 2006: *Zootaxa* **1183**: 54 (*Tokunagaia*). Type-locality: "CHINA: Sichuan Province, Yajiang County, (30°02'N, 101°01'E), 3750 m a.s.l.". — Distr.: **OR**: China (Sichuan).

sp. A: HALVORSEN & SÆTHER, 1987: *Entomologica Scandinavica Supplement* **29**: 187 (*Tokunagaia*). Localities: "Teesta River, between Anderson Bridge and inflow of Rangeet River, Darjeeling, India" [Darjeeling = Darjiling]; "Rangeet River, . . . otherwise as above" [= Rangeet River, Darjeeling, India] [Darjeeling = Darjiling]. — Distr.: **OR**: India (West Bengal).

sp. B: HALVORSEN & SÆTHER, 1987: *Entomologica Scandinavica Supplement* **29**: 187 (*Tokunagaia*). Localities: "Rockingham Creek, inlet into Yellowhead Lake, Jasper – Banff area, Rocky Mountains, British Columbia, Canada". — Distr.: **NE**: Canada (British Columbia).

Genus **TOKYOBRILLIA** KOBAYASHI & SASA

TOKYOBRILLIA KOBAYASHI & SASA, 1991: *Japanese Journal of Sanitary Zoology* **42**(2): 73. Type-species: *Tokyobrillia tamamegaseta* Kobayashi & Sasa, 1991, by original designation.

TOGECNEMUS SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 42. Type-species: *Togecnemus toyamawexeus* Sasa, 1996 [= *Tokyobrillia tamamegaseta* Kobayashi & Sasa, 1991], by original designation. Synonymized with *Tokyobrillia* Kobayashi & Sasa, 1991, by Sæther, Ashe & Murray (2000: *Manual of Palaearctic Diptera* **4** (Appendix): 163).

KUROBEBRILLIA SASA & OGATA, 1999: *Medical Entomology and Zoology* **50**(2): 96. Type-species: *Kurobebrillia jokaquinta* Sasa & Ogata, 1999 [= *Tokyobrillia tamamegaseta* Kobayashi & Sasa, 1991], by original designation. Synonymized with *Tokyobrillia* Kobayashi & Sasa, 1991, by Yamamoto (2004: *Makunagi* **21**: 109).

anderseni SÆTHER & WANG, 1993: *Annales de Limnologie* **28**(3): 216 (*Tokyobrillia*). Type-locality: "Tanzania, Tanga region, West Usumbara, Mts Mazumbai, Kaputo River" [error = West Usumbara Mts]. — Distr.: **AF**: Tanzania. [**Note**]

tamamegaseta KOBAYASHI & SASA, 1991: *Japanese Journal of Sanitary Zoology* **42**(2): 74 (*Tokyobrillia*). Type-locality: [Japan] "side of the Tama River, Masugata, Tama-ku, Kawasaki (Kanagawa)". — Distr.: **PA**: Japan; **OR**: China (Hainan).

toyamawexeus (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 43 (*Togecnemus*). Type-locality: [Introduction, p. 16] "Japan . . . in the zoological garden called Toyama City Family Park on the foot of Kureha Hill"; [p. 17] "at the side of the ground pool "A." " [= Lake A, p. 16].

jokaquinta (SASA & OGATA, 1999): *Medical Entomology and Zoology* **50**(2): 96 (*Kurobebrillia*). Type-locality: {Japan} "on the concrete wall of a ditch discharging sewage waters of the Kurobe Joka Center".

Genus **TONEGAYUSURIKA** SASA & TANAKA

TONEGAYUSURIKA SASA & TANAKA, 2002: *Annual Report of the Gunma Prefecture Institute of Public Health and Environmental Science* **34**: 43. Type-species: *Tonegayusurika tonewpequea* Sasa & Tanaka, 2002, by monotypy.

tonewpequea SASA & TANAKA, 2002: *Annual Report of the Gunma Prefecture Institute of Public Health and Environmental Science* **34**: 43 (*Tonegayusurika*). Type-locality: {Japan} [Title, p. 27] "Tone River, Gunma Prefecture"; [p. 43] "at Taisho Bridge". — Distr.: **PA**: Japan.

Genus **TONNOIROCLADIUS** CRANSTON

TONNOIROCLADIUS CRANSTON, 2007: *Aquatic Insects* **29**(2): 104. Type-species: *Dactylocladius commensalis* Tonnoir, 1923, by original designation.

commensalis (TONNOIR, 1923): *Annales de Biologie Lacustre* **11**(3/4): 284 (*Dactylocladius*). Type-localities: "Nouvelle- Zélande . . . petits torrents de la Gorge du Waiho, au pied du glacier François-Joseph, sur la côte ouest de l'Ile du Sud" [= New Zealand . . . small streams of the Waiho Gorge, at the foot of the Franz-Joseph Glacier, on the west coast of the South Island]; "dans la Gorge d'Otira, dans le Massif central de Alpes du Sud" [= in the Otira Gorge; in the central massif of the Southern Alps]; "à Gouland Down, dans le Massif montagneux du N.-O. de l'Ile du Sud" [= at Gouland Down, in the mountaineous massif of the north-east of the South Island]. — Distr.: **AU**: New Zealand (South Island).

commensalis (TONNOIR, 1922): *Bulletin de la Société Entomologique de Belgique* **4**(11/12): 132 (*Dactylocladius*). Locality: "néo- zélandaises" [= New Zealand]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

Genus **TRICHOCHILUS** SÆTHER

TRICHOCHILUS SÆTHER, 1986: *Spixiana Supplement* **11**: 31. Type-species: *Trichocladius lacteipennis* Johannsen, 1908, by original designation.

lacteipennis (JOHANNSEN, 1908): *Bulletin of the New York State Museum* **124**: 282 (*Trichocladius*). Type-locality: [U.S.A.] "Pennsylvania". — Distr.: **NE**: U.S.A. (Pennsylvania).

Genus **TRICHOSMITTIA** YAMAMOTO

TRICHOSMITTIA YAMAMOTO, 1999: *Journal of the Kansas Entomological Society* **71**(3): 265. Type-species: *Trichosmittia hikosana* Yamamoto, 1999, by original designation.

hikosana YAMAMOTO, 1999: *Journal of the Kansas Entomological Society* **71**(3): 268 (*Trichosmittia*). Type-locality: "Japan, (Kyushu) . . . Mt. Hikosan, Fukuoka Pref.". — Distr.: **PA**: Japan, Russia (Far East).

yakybecea (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(2): 81 (*Limnophyes*). Type-localities: {Yakushima Island, Southwestern Japan} "Isso"; "Anbokawa"; "in the town of Miyanoura". — Distr.: **PA**: Japan.

Genus **TRISSOCLADIUS** KIEFFER

TRISSOCLADIUS KIEFFER in KIEFFER & THIENEMANN, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 3. Type-species: *Trissocladius brevipalpis* Kieffer in Kieffer & Thienemann, 1908, by subsequent designation of Edwards (1929: *Transactions of the Entomological Society of London* **77**: 309). Senior homonym of *Trissocladius* Kieffer, 1908 (below).

TRISSOCLADIUS KIEFFER, 1908: *Denkschriften der Medizinisch-Naturwissenschaftlichen Gesellschaft zu Jena* **13**: 157. Type-species: Not given. **Preoccupied**. Junior homonym of *Trissocladius* Kieffer, 1908 (above).

brevipalpis KIEFFER in KIEFFER & THIENEMANN, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 4 (*Trissocladius*). Type-locality: [Germany] "Greifswald". — Distr.: **PA**: Belgium, Denmark, Finland, Germany, Great Britain, Hungary, Ireland, Lithuania, Mongolia, Morocco, Netherlands, Poland, Romania, Russia (CET, East Siberia), Spain, Sweden, ¶Yugoslavia.

longipennis KIEFFER in KIEFFER & THIENEMANN, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 4 (*Trissocladius*; as var. of *brevipalpis* Kieffer, 1908). Type-locality: [Germany] "Greifswald".

ater KIEFFER in KIEFFER & THIENEMANN, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 4 (*Trissocladius*; as var. of *brevipalpis* Kieffer, 1908). Type-locality: [Germany] "Greifswald".

nigerrimus GOETGHEBUER, 1919: *Annales de Biologie Lacustre* **9**(1/3): 59 (*Trissocladius*). Type-locality: {Belgique} "dans un fossé à Tronchiennes" [= in

a ditch at Tronchiennes] [Belgique = Belgium] ‖ ▶ Type-locality: {Belgique} [p. 24] "à Tronchiennes"; [p. 189] "Les Flandres", [Belgique = Belgium], in Goetghebuer, 1921: *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 91 ◀ ‖. [**Note**]

nigerrimus GOETGHEBUER, 1921: *Mémoires du Musée Royal d'Histoire Naturelle de Belgique* **8** (Fascicule 4, Mémoire 31): 92 (*Trissocladius*). Type-locality: {Belgique} [p. 24] "à Tronchiennes"; [p. 189] "Les Flandres" [Belgique = Belgium]. [**Note**]

heterocerus KIEFFER in KIEFFER & THIENEMANN, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 5 (*Trissocladius*). Type-locality: [Germany] "Greifswald". — Distr.: **PA**: Denmark, Germany. [**Note**]

Genus **TRONDIA** FERRINGTON & SÆTHER

TRONDIA FERRINGTON & SÆTHER, 2006: *Aquatic Insects* **28**(4): 247. Type-species: *Trondia anderseni* Ferrington & Sæther, 2006, by original designation.

anderseni FERRINGTON & SÆTHER, 2006: *Aquatic Insects* **28**(4): 247 (*Trondia*). Type-locality: "Australia: Western Australia, 4 km w. King Cascade". — Distr.: **AU**: Australia (Western Australia).

Genus **TSUDAYUSURIKA** SASA

TSUDAYUSURIKA SASA, 1985: *Research Report from the National Institute for Environmental Studies* **83**: 62. Type-species: *Tsudayusurika fudosecunda* Sasa, 1985, by original designation.

cladochaita WANG, 1995: *Acta Scientiarum Naturalium Universitatis Nankainensis* **28**(2): 49 (*Tsudayusurika*). Type-locality: "China:Guangdong ,Fengkai, Heishiding Natural Conservation". — Distr.: **OR**: China (Guangdong).

fudosecunda SASA, 1985: *Research Report from the National Institute for Environmental Studies* **83**: 62 (*Tsudayusurika*). Type-locality: {southern Kyushu, Japan} "on the shore of Lake Fudo". — Distr.: **PA**: Japan, Russia (Far East).

multiannulata (TOKUNAGA, 1940): *Philippine Journal of Science* **72**(3): 287 (*Spaniotoma* (*Orthocladius*)). Type-locality: [Taiwan] "Arisan, Formosa". — Distr.: **OR**: Taiwan.

yufunivea (SASA & SUZUKI, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 98 (*Epoicocladius*). Type-locality: [Japan] [page 93] "Yufuin Town (Oita Prefecture)". — Distr.: **PA**: Japan.

Genus **TVETENIA** KIEFFER

TVETENIA KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 12. Type-species: *Tvetenia duodenaria* Kieffer, 1922, by monotypy.

altimontana (TOKUNAGA, 1966): *Results of the Kyoto University Scientific Expedition to the Karakorum and Hindukush, 1955 (Additional Reports)* **7**: 282 (*Nanocladius*). Type-locality: "Mt. Noshaq, 3800 m, NE. Afghanistan". — Distr.: **PA**: Afghanistan.

bavarica (GOETGHEBUER, 1934): *Bulletin et Annales de la Société Entomologique de Belgique* **74**(10): 343 (*Eukiefferiella*). Type-locality: [Germany] "Laintalwasserfall bei Mittenwald à 950 m. d'altitude (G.-P.)" [= Laintal Waterfall near Mittenwald at an altitude of 950 metres (Garmisch-Partenkirchen)]. — Distr.: **PA**: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Lebanon, Luxembourg, Morocco, Norway, Poland, Portugal, Romania, Russia (CET, NET), Sardinia, Slovakia, Spain, Sweden, Switzerland, Turkey, ¶Yugoslavia. [**Note**]

boreomontana MAKARCHENKO & MAKARCHENKO, 2006: *Russian Entomological Journal* **15**(1): 75 (*Tvetenia*). Type-locality: {Russian Far East} "unnamed stream of Egvekinot-Iultin motorway in environs of 105 km, Chukotski Peninsula, Kresta Bay". — Distr.: **PA**: Russia (Far East).

calvescens (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**:

353 (*Spaniotoma* (*Eukiefferiella*)). Type-localities: [Great Britain] "Ilkley, Yorks." [Yorks. = Yorkshire]; "Salisbury"; "Colwich Park, Staffs." [Staffs. = Staffordshire]; "Snailbeach, Salop" [Salop = Shropshire]; "Austwick, Yorks." [Yorks. = Yorkshire]; "Melkinthorpe, Westmorland". — Distr.: **NE**: U.S.A. (New Mexico, Ohio); **PA**: Andorra, Austria, Belarus, Belgium, Bulgaria, Corsica, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Latvia, Lebanon, Luxembourg, Mongolia, Morocco, Netherlands, Norway, Novaya Zemlya, Poland, Portugal, Romania, Russia (CET, NET), Slovakia, Spain, Sweden, Switzerland, Turkey; **AF**: D.R.Congo, Ethiopia, South Africa. [**Note**]

lobulifera (GOETGHEBUER, 1935): *Encyclopédie Entomologique, B-II, Diptera* **8**: 9 (*Eukiefferiella*). Type-locality: [Germany] "à Partenkirchen".

debilis (SINHARAY & CHAUDHURI in SINHARAY, CHAUDHURI & CHAUDHURI, 1978): *Oriental Insects* **12**(3): 349 (*Eukiefferiella*). Type-locality: "INDIA: WEST BENGAL: Pankhabari". — Distr.: **OR**: India (West Bengal).

discoloripes (GOETGHEBUER & THIENEMANN in THIENEMANN, 1936): *Stettiner Entomologische Zeitung* **97**(1): 51 (*Eukiefferiella*). Type-locality: [Germany] "aus dem Dorfbach von Schaalby bei Schleswig" [= from the village stream of Schaalby near Schleswig]. — Distr.: **PA**: Armenia, Austria, Belarus, Bulgaria, Corsica, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Luxembourg, Moldova, Morocco, Netherlands, Novaya Zemlya, Poland, Russia (CET, NET, West Siberia), Slovakia, Spain, Turkey, ¶Yugoslavia. [**Note**]

concoloripes (THIENEMANN, 1919): *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst (Zoologische Sektion)* **47**: 27 (*Dactylocladius*; as var. of "*discoloripes* Kieffer"). Localities: [Germany] "Lutterbach, Stau vor der Niemöllerschen Mühle in Quelle bei Brackwede" [= Westphalia: Lutterbach (a stream), impoundment at the Niemöller mill in a spring at Brackwede]; "Sassendorfer Dorfbach" [= Sassendorf village stream].

Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

rufescens (THIENEMANN, 1936): *Stettiner Entomologische Zeitung* **97**(1): 53 (*Eukiefferiella*; as var. of *discoloripes* Goetghebuer, 1936). Type-locality: [Germany] "Holstein: Auf einem Kalktuffblock eines Quellabflusses am Dieksee" [= Holstein: On a limestone tufa boulder from a spring outflow on Dieksee]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

duodenaria KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 12 (*Tvetenia*). Type-locality: [Russia] {Nouvelle-Zemble} "Baye Pomorskaye, Detroit Matotchkin" [Lectotype designation in Sæther & Halvorsen, 1981: *Entomologica Scandinavica Supplement* **15**: 278, "Pomorskaya Bay, Matotckin Narrows, Novaya Zemlya"]. — Distr.: **NE**: Canada (Nunavut, Yukon Territory); **PA**: Finland, Latvia, Novaya Zemlya, Poland, Portugal, Romania, Russia (Far East), Sweden.

saanensis (WÜLKER, 1959): *Archiv für Hydrobiologie Supplement* **25**(1): 50 (*Eukiefferiella*). Type-locality: "eine Rheokrene des Skiurdsjoki am Nordhang des Saana im äußersten NW-Zipfel von Finnisch-Lappland" [= a rheocrene of the Skiurdsjoki on the northern slope of the Saana in the far north-west of Finnish Lapland].

furudotertia (SASA & ARAKAWA, 1994): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1994**: 95 (*Eukiefferiella*). Type-locality: [Japan] [Introduction, p. 88] "Furudo . . . a man-made lake constructed in a hilly area of Ikeda, southern part of Toyama-shi". — Distr.: **PA**: Japan.

ginzanopea (SASA & SUZUKI, 2001): *Tropical Medicine* **43**(1/2): 21 (*Eukiefferiella*). Type-locality: {Hokkaido, Japan} "Ginzan". — Distr.: **PA**: Japan.

gotogehea (SASA & SUZUKI, 2001): *Tropical Medicine* **42**(3/4): 157 (*Eukiefferiella*). Type-locality: {Goto Islands, Western Japan} "Wani River". — Distr.: **PA**: Japan.

jokasexta (SASA & OGATA, 1999): *Medical Entomology and Zoology* **50**(2): 97 (*Eukiefferiella*). Type-locality: {Japan} [Abstract, p. 85] "Kurobe Municipal Sewage Treatment Plant (Kurobe Joka Center)"; [p. 97] "on a stream discharging the sewage treated water". — Distr.: **PA**: Japan.

nagaokensis (TOKUNAGA, 1964): *Akitu* **12**: 18 (*Orthocladius* (*Orthocladius*)). Type-locality: "Honshu, Japan . . . Mt. Yukyu, Nagaoka, Niigata Pref.". — Distr.: **PA**: Japan. [**Note**]

paucunca (SÆTHER, 1969): *Bulletin of the Fisheries Research Board of Canada* **170**: 46 (*Eukiefferiella*). Type-locality: [Canada] "large mountain stream, Rowe Creek, above highway to Cameron Lake, Waterton National Park, Alta." [Alta. = Alberta]. — Distr.: **NE**: Canada (Alberta, Northwest Territories, Manitoba, Ontario, Yukon Territory), U.S.A. (Georgia, Michigan, North Carolina, Ohio, South Carolina); **PA**: Novaya Zemlya, Romania, Russia (East Siberia). [**Note**]

taishoefea (SASA & TANAKA, 2001): *Annual Report of the Gunma Prefecture Institute of Public Health and Environmental Science* **33**: 55 (*Eukiefferiella*). Type-locality: {Japan} [Abstract, p. 41] "Tone River, Gunma Prefecture"; [p. 55] "Taisho Bridge". — Distr.: **PA**: Japan.

tamaflava (SASA, 1981): *Research Report from the National Institute for Environmental Studies* **29**: 6 (*Eukiefferiella*). Type-locality: {Japan, Tama River, Minamiasakawa River} "Station No. 2". — Distr.: **PA**: Japan, Russia (Far East).

kibunesagittaria (SASA, 1989): *Research Report Toyama Prefectural Environmental Pollution Research Center* **1989**: 58 (*Synorthocladius*). Type-locality: [Japan] [p. 54] "Kibune River"; [p. 58] "St. C".

togaeuquarta (SASA & OKAZAWA, 1992): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1992**: 111 (*Eukiefferiella*). Type-locality: {Japan} [Introduction, p. 92] "Toga-mura . . . in the southern mountainous part of Toyama Prefecture"; [p. 112] "at Momose". — Distr.: **PA**: Japan.

togaeuquarta (SASA & OKAZAWA, 1991): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 119 (*Eukiefferiella*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

tokaraopea SASA & SUZUKI, 1995: *Japanese Journal of Sanitary Zoology* **46**(3): 280 (*Tvetenia*). Type-locality: {Tokara Islands, Japan} "Nakanoshima". — Distr.: **OR**: Japan (Ryukyu Archipelago).

tonedeea (SASA & TANAKA, 2000): *Annual Report of Gunma Prefecture Institute of Public Health and Environmental Sciences* **32**: 39 (*Eukiefferiella*). Type-locality: {Japan} [Title, p. 38] "Tone River, Gunma Prefecture"; [p. 40] "at Fukushima Bridge". — Distr.: **PA**: Japan.

tonegehea (SASA & TANAKA, 2000): *Annual Report of Gunma Prefecture Institute of Public Health and Environmental Sciences* **32**: 41 (*Eukiefferiella*). Type-locality: {Japan} [Title, p. 38] "Tone River, Gunma Prefecture"; [p. 41] "at Taisho Bridge". — Distr.: **PA**: Japan.

toyamaijea (SASA, 1996): *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 30 (*Eukiefferiella*). Type-locality: [Introduction, p. 16] "Japan . . . in the zoological garden called Toyama City Family Park on the foot of Kureha Hill"; [p. 17] "at the side of the ground pool "A." " [= Lake A, p. 16]. — Distr.: **PA**: Japan.

tshernovskii (PANKRATOVA, 1968): *Trudy Zoologicheskogo Instituta, Leningrad* **45**: 253 (*Eukiefferiella*; originally as "*tshernovskij*"; as nom. nov. for *Eukiefferiella* sp. sensu Chernovskii, 1949). Type-localities: [Russia, Northern European Territory] **v r. Neve** [= in the River Neva]; **r. Nevy ot Oreshka do ust'ya r. Slavyanki** [= River Neva from Oreshk to the mouth of the River Slavyanki]; **pravogo berega r. Nevy u Novo-Saratovskoi** [= right bank of the River Neva at Novosaratovsk] [Lectotype designation in Przhiboro &

Sæther, 2010: *Zootaxa* **2675**: 60, [Russia] "r. Volga"] [= River Volga]. — Distr.: **NE**: Canada (Ontario, Saskatchewan), U.S.A. (Arizona, California, Florida, Georgia, Michigan, New York, North Carolina, South Carolina); **PA**: Austria, Germany, Great Britain, Kazakhstan, Kyrgyzstan, Norway, Romania, Russia (CET, NET, East Siberia, Far East, West Siberia). [**Note**]

tshernovskij: incorrect original spelling.

vitracies (SÆTHER, 1969): *Bulletin of the Fisheries Research Board of Canada* **170**: 49 (*Eukiefferiella*). Type-locality: [Canada] "fast flowing stream, between miles 6 and 7 on Mando logging road, Kenora, Ont." [Ont. = Ontario].

verralli (EDWARDS, 1929): *Transactions of the Entomological Society of London* **77**: 348 (*Spaniotoma* (*Orthocladius*)). Type-locality: [Great Britain] "Llangollen, N. Wales". — Distr.: **PA**: Austria, Balearic Islands, Belgium, Corsica, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Ireland, Italy, Lithuania, Luxembourg, Mongolia, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia (NET, East Siberia), Sardinia, Slovakia, Spain, Sweden, Switzerland, Turkey. [**Note**]

nigrofasciata (GOETGHEBUER, 1938): *Bulletin et Annales de la Société Entomologique de Belgique* **78**(11): 461 (*Eukiefferiella*). Type-locality: [Austria] "Basse-Autriche" [= Province of Lower Austria].

? *scanicus* (BRUNDIN, 1956): *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 78 (*Trissocladius*). Type-locality: Schweden . . . an einem Bach bei Sösdala in Schonen" [= Sweden . . . at a stream near Sösdala in Skåne]. **Questionable synonym**.

yakumenea (SASA & SUZUKI, 2000): *Tropical Medicine* **42**(2): 71 (*Eukiefferiella*). Type-locality: {Yakushima Island, Southwestern Japan} "Anbokawa". — Distr.: **PA**: Japan.

sp.: CRANSTON, OLIVER & SÆTHER, 1989: *Entomologica Scandinavica Supplement* **34**: 250 (*Tvetenia*). Locality: "Afrotropical". — Distr.: **AF**: Country not specified.

Nomina dubia in TVETENIA

alpestris (GOETGHEBUER, 1934): *Bulletin et Annales de la Société Entomologique de Belgique* **74**(3): 91 (*Eukiefferiella*). Type-locality: [Germany] [Title, p. 87] "Environs de Garmisch-Partenkirchen (Haute-Bavière)" [= Vicinity of Garmisch-Partenkirchen (Upper Bavaria); [p. 92] " larves au bord d'une source, à une altitude de 850 m" [= larvae at the margins of a spring, at an altitude of 850 metres]. [**Note**]

commutatus (STORÅ, 1936): *Commentationes Biologicae* **6**(1): 26 (*Orthocladius*). Type-localities: {Kanarischen Inseln} [= Canary Islands] "Palma: La Caldera" [= La Palma: La Caldera]; "Gom.: San Sebastian" [= La Gomera: San Sebastian].

Genus **UBATUBANEURA** WIEDENBRUG & TRIVINHO-STRIXINHO

UBATUBANEURA WIEDENBRUG & TRIVINHO-STRIXINHO, 2009: *Zootaxa* **1993**: 44. Type-species: *Ubatubaneura atlantica* Wiedenbrug & Trivinho-Strixinho, 2009, by original designation.

atlantica WIEDENBRUG & TRIVINHO-STRIXINHO, 2009: *Zootaxa* **1993**: 47 (*Ubatubaneura*). Type-locality: "BRAZIL: São Paulo, Ubatuba, Sertão da Quina, upstream of Cachoeira da Renata, 23°30.789'S, 45°14.442'W, 61 m a.s.l.". — Distr.: **NT**: Brazil.

Genus **UNNIELLA** SÆTHER

UNNIELLA SÆTHER, 1982: *Entomologica Scandinavica* **13**(4): 502. Type-species: *Unniella multivirga* Sæther, 1982, by original designation.

multivirga SÆTHER, 1982: *Entomologica Scandinavica* **13**(4): 503 (*Unniella*). Type-locality: "U.S.A. . . . backwater area, Blackwater State Park, Milton, Santa Rosa Co., Florida". — Distr.: **NE**: U.S.A. (Florida, Georgia, North Carolina, South Carolina).

Genus **VIVACRICOTOPUS** SCHNELL & SÆTHER

VIVACRICOTOPUS SCHNELL & SÆTHER, 1988: *Spixiana Supplement* **14**: 49. Type-species: *Vivacricotopus ablusus* Schnell & Sæther, 1988, by original designation.

ablusus SCHNELL & SÆTHER, 1988: *Spixiana Supplement* **14**: 53 (*Vivacricotopus*). Type-locality: "Viva, Jostedøla river, Luster, Sogn & Fjordane, Norway". — Distr.: **PA**: Finland, Mongolia, Norway, Russia (East Siberia. **?**Far East).

elgandzha MAKARCHENKO & MAKARCHENKO, 2005: *Evraziatskii Entomologicheskii Zhurnal* **4**(1): 75 (*Vivacricotopus*). Type-locality: **Rossiya, Khabarovskii kr., Chegdomynskii r-n, okr. pos. Chegdomyn, r. Él'gandzha** [= Russia, Khabarovsk Krai, Chegdomynskii district, vicinity of the settlement of Chegdomyn, River Él'gandzha]. — Distr.: **PA**: Russia (Far East).

piloculus (CRANSTON & OLIVER, 1988): *Canadian Entomologist* **120**(5): 435 (*Hydrobaenus*). Type-locality: "CANADA: Northwest Territories, District of Franklin, Banks Island, Masik River". — Distr.: **NE**: Canada (Northwest Territories); **PA**: Russia (East Siberia, Far East).

sp. 1: MAKARCHENKO & MAKARCHENKO, 2005: *Evraziatskii Entomologicheskii Zhurnal* **4**(1): 79 (*Vivacricotopus*). Type-locality: **Rossiya, Amurskaya obl., bassein Zeiskogo vodokhranilishcha, r. Pal'paga v raione mosta avtomobil'nogo trassy mezhdy g. Zeya i pos. Verkhnezeisk** [= Russia, Amur Oblast, basin of the Zeiskogo Reservoir, River Pal'paga in the vicinity of the automobile bridge on the route between the town of Zeya and the settlement of Verkhnezeisk]. — Distr.: **PA**: Russia (Far East).

Genus **XYLOTOPUS** OLIVER

XYLOTOPUS OLIVER, 1982: *Canadian Entomologist* **114**(2): 167. Type-species: *Orthocladius par* Coquillett, 1901, by original designation.

amamiapiatus (SASA, 1990): *Japanese Journal of Experimental Medicine* **60**(3): 126 (*Eurycnemus*). Type-locality: {Amami Island, Nansei Islands, southern Japan} "at the side of Yakkachi River". — Distr.: **OR**: Japan (Ryukyu Archipelago).

burmanensis OLIVER, 1985: *Canadian Entomologist* **117**(9): 1103 (*Xylotopus*). Type-locality: [Myanmar] "NE Burma, Kambaiti, 7000 ft.". — Distr.: **OR**: Myanmar.

par (COQUILLETT, 1901): *Proceedings of the United States National Museum* **23**: 608 (*Orthocladius*). Type-locality: [U.S.A.] "Riverton, New Jersey". Senior secondary homonym of *Orthocladius par* Johannsen, 1905. — Distr.: **NE**: Canada (Nova Scotia, Ontario), U.S.A. (Alabama, Florida, Georgia, Maine, Michigan, New Jersey, New York, North Carolina, Ohio, South Carolina, Tennessee, Texas, Utah).

scitulus (COQUILLETT, 1901): *Proceedings of the United States National Museum* **23**: 608 (*Eurycnemus*). Type-locality: [U.S.A.] "Riverton, New Jersey".

par (JOHANNSEN, 1905): *Bulletin of the New York State Museum* **86**: 301 (*Metriocnemus*). Type-localities: [U.S.A.] "Axton, N. Y." [N. Y. = New York]; "New Jersey". **Preoccupied**. Junior secondary homonym of *Orthocladius par* Coquillett, 1901.

Genus **ZALUTSCHIA** LIPINA

ZALUTSCHIA LIPINA, 1939: *Trudy Laboratorii Sapropelevykh Otlozhenii Akademii Nauk SSSR* **1**: 106 (in English summary). Type-species: *Zalutschia zalutschicola* Lipina, 1939, by monotypy.

KARELIA CHERNOVSKII, 1939: *Zoologicheskii Zhurnal* **17**(6): 1043. Type-species: *Karelia perfilievi* Chernovskii, 1939 [= *Zalutschia zalutschicola* Lipina, 1939], by monotypy. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**. Synonymized with *Zalutschia* Lipina, 1939, by Chernovskii (1949: *Opredeliteli po Faune SSSR* **31**: 170). **[Note]**

briani SOPONIS, 1979: *Entomologica Scandinavica Supplement* **10**: 125 (*Zalutschia*). Type-locality: [U.S.A.] "Florida, Santa Rosa Co., Bear Lake in Blackwater State Forest". — Distr.: **NE**: U.S.A. (Florida, North Carolina, South Carolina).

furcarca SÆTHER, 1976: *Bulletin of the Fisheries Research Board of Canada* **195**: 217

(*Zalutschia*). Type-locality: [Canada] "Lake Shore, Clyde, Baffin Island, N.W.T." [N.W.T. = Northwest Territories; type-locality now in Nunavut Province]. — Distr.: **NE**: Canada (Nunavut).

humphriesiae DOWLING & MURRAY, 1980: *Acta Universitatis Carolinae Biologica* **1978**: 49 (*Zalutschia*). Type-locality: {Ireland} "Featherbed Mountain, Co. Dublin. (IGR O 135 195)". — Distr.: **PA**: **?**Finland, Great Britain, Ireland, Morocco, Netherlands, Norway, Portugal, Spain. [**Note**]

humphresiae: incorrect subsequent spelling.

lingulata SÆTHER, 1976: *Bulletin of the Fisheries Research Board of Canada* **195**: 222 (*Zalutschia*). Type-locality: [Canada] "Otter Lake, Lanark Co., Ont." [Ont. = Ontario]. — Distr.: **NE**: Canada (British Columbia, Ontario, Québec), U.S.A. (Indiana, Michigan, New York).

pauca SÆTHER, 1976: *Bulletin of the Fisheries Research Board of Canada* **195**: 228 (*Zalutschia*; as subspecies of *lingulata* Sæther, 1976). Type-locality: [Canada] "Marion Lake, B.C." [B.C. = British Columbia].

teres SÆTHER, 1976: *Bulletin of the Fisheries Research Board of Canada* **195**: 233 (*Zalutschia*; as forma of *lingulata* Sæther, 1976). Locality: [Canada] "Norman Wells, N.W.T." [N.W.T. = Northwest Territories]. Unavailable name proposed as a "variety" or "form" after 1960 contrary to Article 15.2 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

mallae TUISKUNEN in TUISKUNEN & LINDEBERG, 1986: *Annales Zoologici Fennici* **23**(4): 388 (*Zalutschia*). Type-locality: "Finland, Le, Enontekiö, Kilpisjärvi, Pikku Malla (767:25)". — Distr.: **PA**: Finland, Norway, Russia (NET).

megastyla (SHILOVA, 1971): *Trudy Instituta Biologii Vnutrennikh Vod* **22**(25): 123 (*Trissocladius*). Type-locality: [Russia, Central European Territory, Yaroslavl Oblast, Borok] **vremennykh luzhakh vblizi Instituta biologii vnutrennikh vod AN SSSR** [= temporary pool near the Institute of Biology of Inland Waters of the Academy of Sciences of the USSR]. — Distr.: **PA**: Russia (CET, NET), Turkey.

mucronata (BRUNDIN, 1949): *Reports from the Institute of Freshwater Research, Drottningholm* **30**: 819 (*Trissocladius*). Type-locality: [Sweden] "Moorkolk Grimsgöl in Småland" [= Bog pond Grimsgöl in Småland]. — Distr.: **PA**: Estonia, Finland, Hungary, Lithuania, Moldova, Netherlands, Norway, Novaya Zemlya, Poland, Romania, Russia (CET, NET, SET, East Siberia, West Siberia), Slovakia, Sweden, ¶Yugoslavia.

? *potamophilus* (CHERNOVSKII, 1949): *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 149 (*Orthocladius*). Type-locality: Not given. **Questionable synonym**.

obsepta (WEBB, 1969): *Journal of the Kansas Entomological Society* **42**(1): 91 (*Orthocladius*). Type-locality: [Canada] "Costello Lake, Algonquin Park, Haliburton County, Ontario". — Distr.: **NE**: Canada (Ontario, Québec).

pusa SÆTHER, 1976: *Bulletin of the Fisheries Research Board of Canada* **195**: 234 (*Zalutschia*). Type-locality: [Canada] "1 mile west of Whiteshell Provincial Park, Man., on TransCanada highway" [Man. = Manitoba]. — Distr.: **NE**: Canada (Manitoba).

tatrica (PAGAST in ZAVŘEL & PAGAST, 1935): *Časopis České Společnosti Entomologické* **32**(4): 156 (*Spaniotoma*). Type-localities: [Slovakia] "in Hoher Tatra . . . tümpelartigen Seen, deren Tiefe kaum 1 m erreicht" [= in the High Tatra . . . pond-like lakes, whose depth berely reaches 1 metre]; "»Furkotské nižní«, 1635 m"; "Tümpel über dem See »Pleso nad skokem«, 1850 m" [= Pond above the lake »Pleso nad skokem«, 1850 metres]; "»Velké sesterské«, 1940 m"; "»Studené I.«, 1802 m"; "am Ufer des tiefen Sees »Štrbské pleso« erbeutet (1350 m)" [= captured on the shore of the deep lake »Štrbské pleso« (1350 metres)]. — Distr.: **NE**: U.S.A. (Alaska); **PA**: Austria, Czech Republic, Finland, Italy, Norway, Poland, Russia (NET, Far East), Slovakia, Spitzbergen, Sweden.

tornetraeskensis (EDWARDS & THIENEMANN in THIENEMANN, 1941): *Archiv für Hydrobiologie Supplement* **17**: 211 (*Trissocladius*; [pp. 102, 174] as "*tornetraeskensis*" and [pp. 211-125] as "*torneträskensis*"). Type-locality:

{Schwedisch-Lappland} "Shore of Lake Torneträsk". — Distr.: **PA**: Finland, Norway, Novaya Zemlya, Poland, Russia (NET), Sweden, Turkey. [**Note**]

torneträskensis, tornetraskensis: incorrect original spellings.

tornetraeskensis: **Not Nearctic**.

? *fontinalis* (CHERNOVSKII, 1949): *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 149 (*Orthocladius*). Type-localities: [Russia] **naidena v . . . Fontinalis distrofnogo ozera pod Leningradom** [= found in . . . *Fontinalis* in a dystrophic lake near Leningrad (now Saint Petersburg)]. [**Note**].

? *korosiensis* (CHERNOVSKII, 1949): *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 144 (*Orthocladius*). Type-locality: [Russia] **v ruch'yakh, naidena pod Leningradom** [= in rivers, found near Leningrad] [Leningrad, now = Saint Petersburg].

trigonacies SÆTHER, 1976: *Bulletin of the Fisheries Research Board of Canada* **195**: 242 (*Zalutschia*). Type-locality: [Canada, Nunavut] "Hazen Camp, Ellesmere Island, N.W.T." [N.W.T. = Northwest Territories; type-locality now in Nunavut Province]. — Distr.: **NE**: Canada (Nunavut), U.S.A. (Alaska); **PA**: Russia (East Siberia, Far East).

vockerothi SÆTHER, 1976: *Bulletin of the Fisheries Research Board of Canada* **195**: 219 (*Zalutschia*). Type-locality: [Canada] "Old Chelsea, Que." [Que. = Québec]. — Distr.: **NE**: Canada (Québec).

xethis (ROBACK, 1957): *Proceedings of the Academy of Natural Sciences of Philadelphia* **109**: 13 (*Hydrobaenus*). Type-locality: [U.S.A.] "Heber-Midway Bridge, Wasatch County, Utah". — Distr.: **NE**: U.S.A. (Utah).

zalutschicola LIPINA, 1939: *Trudy Laboratorii Sapropelevykh Otlozhenii Akademii Nauk SSSR* **1**: 96, 106 (*Zalutschia* [p. 106]; as "G? larva *zalutschicola* g. n." [p. 96]). Type-locality: [Russia, Central European Territory] ** v oz. Chernom** [= in Chenoye Lake]. — Distr.: **NE**: Canada (Manitoba, Northwest Territories, Saskatchewan), U.S.A. (Alaska, New Hampshire); **PA**: Denmark, Germany,

Finland, Norway, Russia (CET, NET, East Siberia, Far East), Sweden.

naumanni (BRUNDIN, 1949): *Reports from the Institute of Freshwater Research, Drottningholm* **30**: 823 (*Orthocladius*; as "*Naumanni*"). Type-locality: [Sweden] "aus dem Skärshultsjön in Småland" [= from Skärshultsjön in Småland].

perfilievi (CHERNOVSKII, 1939): *Zoologicheskii Zhurnal* **17**(6): 1043 (*Karelia*). Type-locality: [Russia, Northern European Territory] **Ozero Korozi-lamba** [= Lake Korozi-lamba]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**. [**Note**]

Generically Unplaced Valid ORTHOCLADIINAE

adjectus TOKUNAGA, 1964: *Insects of Micronesia* **12**(5): 508 (*Metriocnemus*); as "*adjecta*"). Type-locality: [Belau] "Ulimang, Babelthuap I., Palau". — Distr.: **AU**: Belau; **OC**: Federated States of Micronesia.

aequalis KIEFFER, 1917: *Annales Historico-Naturales Musei Nationalis Hungarici* **15**: 227 (*Cricotopus*). Type-locality: [Papua New Guinea] "Nouvelle-Guinea: Sattelberg, Huon Golf" [= New Guinea: Sattelberg, Huon Gulf]. — Distr.: **AU**: Papua New Guinea.

albiclava KIEFFER, 1923: *Annales de la Société Entomologique de France* **92**: 183 (*Trichocladius*). Type-locality: "Cameroun : Kribi" [Cameroun = Cameroon]. — Distr.: **AF**: Cameroon.

albitarsis EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 286 (*Spaniotoma* (*Orthocladius*)). Type-locality: [Argentina] "L. Correntoso". — Distr.: **NT**: Argentina.

aurantiacus EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 273 (*Metriocnemus*). Type-locality: [Chile] "Casa Pangue". — Distr.: **NT**: Chile.

brachypus EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 279 (*Spaniotoma* (*Trichocladius*)). Type-locality: [Argentina] "R. Pichileufu" [= River Pichi

Leufu]. — Distr.: **NT**: Argentina.

brundini MAKARCHENKO & MAKARCHENKO, 2008: *Russian Entomological Journal* **17**(2): 220 (*Pseudosmittia*). Type-locality: "Sporny Stream, Sikhtoe-Alin' Biosphere Nature Reserve, Primorye Territory, Russian Far East". — Distr.: **PA**: Russia (Far East). [**Note**]

calomicra EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 285 (*Spaniotoma* (*Orthocladius*)). Type-locality: [Argentina] "Puerto Blest". — Distr.: **NT**: Argentina.

campestris HARDY, 1960: *Insects of Hawaii* **10**: 138 (*Orthocladius* (*Smittia*)). Type-locality: {Hawaiian Islands} "Ewa, Oahu". — Distr.: **OC**: Hawaiian Islands (Oahu Island).

ceylanicus KIEFFER, 1912: *Spolia Zeylanica* **8**: 21 (*Dactylocladius*). Type-locality: [Sri Lanka] {Ceylan} "Peradeniya". — Distr.: **OR**: Sri Lanka.

davisi HARDY, 1960: *Insects of Hawaii* **10**: 131 (*Orthocladius* (*Orthocladius*)). Type-locality: {Hawaiian Islands} "Kaula Gulch, Hawaii, 7,000 ft.". — Distr.: **OC**: Hawaiian Islands (Hawaii Island).

despectus KIEFFER, 1923: *Annales de la Société Linnéene de Lyon* **69**: 39 (*Camptocladius*). Type-locality: [Taiwan] {Formosa} "Taihoku". — Distr.: **OR**: Taiwan. [**Note**]

dichromus EDWARDS, 1929: *Notulae Entomologicae* **9**(1): 7 (*Camptocladius*). Type-locality: {Philippines} "Balbalasang". — Distr.: **OR**: Philippines.

eurycnemoides EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 284 (*Spaniotoma* (*Orthocladius*)). Type-locality: [Argentina] "L. Nahuel Huapi, eastern end". — Distr.: **NT**: Argentina.

famijekeus SASA, 1996: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1996** (**March**): 59 (*Epoicocladius*). Type-locality: [Introduction, p. 16] "Japan . . . in the zoological garden called Toyama City Family Park on the foot of Kureha Hill"; [p. 47] "at the side of Rokusen Lake" [= Lake B, p. 16]. — Distr.: **PA**: Japan.

fasciventris EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 319 (*Metriocnemus*). Type-locality: [Argentina] "San Isidro, Buenos Aires". — Distr.: **NT**: Argentina.

fernandezensis WIRTH, 1952: *Revista Chilena de Entomología* **2**: 101 (*Hydrobaenus (Limnophyes)*). Type-locality: {Chile, Juan Fernández Islands} "MASATIERRA, Miradero de Selkirk, 550 m.". — Distr.: **NT**: Juan Fernández Islands.

flavus KIEFFER, 1910: *Memoirs of the Indian Museum* **2**(4): 242 (*Conocladius*) . Type-locality: [India] "Calcutta" [now = Kolkata]. — Distr.: **OR**: India (West Bengal). [**Note**]

formosanus KIEFFER, 1923: *Annales de la Société Linnéene de Lyon* **69**: 39 (*Camptocladius*). Type-localities: [Taiwan] {Formosa} "Chosokei"; "Taihoku". — Distr.: **OR**: Taiwan. [**Note**]

grimshawi HARDY, 1960: *Insects of Hawaii* **10**: 132 (*Orthocladius* (*Orthocladius*)). Type-locality: {Hawaiian Islands} "Nahiku, Maui". — Distr.: **OC**: Hawaiian Islands (Hawaii Island, Kauai Island, Maui Island, Oahu Island).

griseovittatus EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 271 (*Metriocnemus*). Type-locality: [Argentina] "Bariloche". — Distr.: **NT**: Argentina.

herbicolus HARDY, 1960: *Insects of Hawaii* **10**: 147 (*Metriocnemus*). Type-locality: {Hawaiian Islands} "Mount Tantalus, Oahu, . . . from lush vegetation on side of trail". — Distr.: **OC**: Hawaiian Islands (Oahu Island).

heteropterus KIEFFER, 1911: *Records of the Indian Museum* **6**(3): 176 (*Dolichocladius*). Type-locality: [Myanmar] "Dawna Hills, Lower Burma". — Distr.: **OR**: Myanmar. [**Note**]

kadamtullaensis MAHESHWARI & MAHESHWARI, 2002: *Journal of the Bombay Natural History Society* **98**(3): 410 (*Lindebergia*). Type-locality: "Kadamtulla seashore, Middle Andaman; . . . India . . . Kadamtulla, Andaman and Nicobar Is.". — Distr.: **OR**: India (Andaman and Nicobar Islands). [**Note**]

lateralis WALKER, 1837: *Transactions of the Linnean Society of London* **17**: 332 (*Chironomus*). Type-locality: [Chile] "Port Famine in the Straits of Magellan". — Distr.: **NT**: Argentina, Chile. Senior primary homonym of *Chironomus* (*Cryptochironomus*) *lateralis* Goetghebuer, 1934 – currently a valid species of

Cladopelma Kieffer, 1921 (Subfamily Chironominae).

? *melas* (PHILIPPI, 1866): *Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien (Abhandlungen)* **15**(4): 600 (*Chironomus*). Type-locality: {Chile} "Von Santiago" [= From Santiago]. **Questionable synonym**. **[Note]**

? *ioergenseni* KIEFFER, 1910: *Bollettino del Laboratorio di Zoologia Generale e Agraria della Reale Scuola Superiore d'Agricoltura in Portici* **4**: 328 (*Diplocladius*; as "*Iörgenseni*"). Type-locality: "République Argentine: Chacras de Coria". **Questionable synonym**. **[Note]**

Iörgenseni: incorrect original spelling.

jörgenseni; *jorgenseni*: incorrect subsequent spellings.

latiforceps EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 278 (*Spaniotoma* (*Trichocladius*)). Type-locality: "Megallanes Territory, S. Chile" [Megallanes = Magallanes]. — Distr.: **NT**: Argentina, Chile.

luteibasis EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 278 (*Spaniotoma* (*Trichocladius*)). Type-locality: [Argentina] "L. Correntoso". — Distr.: **NT**: Argentina.

magellanica EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 298 (*Spaniotoma* (*Smittia*)). Type-locality: [Chile] "Magallanes Territory". — Distr.: **NT**: Chile.

maorii BRUNDIN, 1964: *Pacific Basin Biogeography*: 431 (*Ljungneria*). Type-locality: "mountain streams of New Zealand". — Distr.: **AU**: New Zealand (South Island). **[Note]**

membranisensoria HARDY, 1960: *Insects of Hawaii* **10**: 134 (*Orthocladius* (*Orthocladius*)). Type-locality: {Hawaiian Islands} "Kaula Gulch, Hawaii, 7,000 ft.". — Distr.: **OC**: Hawaiian Islands (Hawaii Island).

oriplanus KIEFFER, 1911: *Records of the Indian Museum* **6**(5): 346 (*Trichocladius*). Type-locality: [India, West Bengal] "Himalaya oriental: Tonglu, Darjiling district". — Distr.: **OR**: India (West Bengal).

patagonica BRUNDIN, 1964: *Pacific Basin Biogeography*: 430 (*Ljungneria*). Type-locality: [Argentina, Chile] "mountain streams of the South Andes". — Distr.: **NT**:

Argentina, Chile. [**Note**]

peyerimhoffi BEZZI, 1916: *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord* **7**: 96 (*Cataliptus*; as "*Peyerimhoffi*"). Type-locality: [p. 91] "sur les pierres et les parois, tout au fond d'un *tessereft* (aven) du Haïzer (Djurdjura), en Algérie" [= on the rocks and walls, at the bottom of a *tessereft* (aven) of Haïzer (Djurdjura), in Algeria]. — Distr.: **PA**: Algeria.

restricta BRUNDIN, 1956: *Reports from the Institute of Freshwater Research, Drottningholm* **37**: 170 (*Pseudosmittia*). Type-locality: "Schweden: . . . am Ufer des Bodsjön bei Kälarne in Jämtland" [= Sweden: . . . on the shore of Bodsjön near Kälarne in Jämtland]. — Distr.: **PA**: Sweden, [**Note**]

seiryuijeus SASA, SUZUKI & SAKAI, 1999: *Tropical Medicine* **40**(3): 109 (*Limnophyes*). Type-locality: [Abstract, p. 99] "Shimanto River, western Shikoku Island, Japan"; [p. 109] "Nakamura". — Distr.: **PA**: Japan.

subrostratus EDWARDS, 1931: *Diptera of Patagonia and South Chile* **2**(5): 272 (*Metriocnemus*). Type-locality: [Argentina] "Puerto Blest". — Distr.: **NT**: Argentina.

tenuicrus KIEFFER, 1911: *Records of the Indian Museum* **6**(3): 174 (*Dactylocladius*). Type-locality: [Bangladesh] "E. Bengal, Rajshahi". — Distr.: **OR**: Bangladesh.

tonewneous SASA & TANAKA, 2002: *Annual Report of the Gunma Prefecture Institute of Public Health and Environmental Science* **34**: 40 (*Epoicocladius*). Type-locality: {Japan} [Title, p. 27] "Tone River, Gunma Prefecture"; [p. 40] "at Sudagai". — Distr.: **PA**: Japan.

tusimomeneus SASA & SUZUKI, 1999: *Tropical Medicine* **41**(2): 89 (*Hydrobaenus*). Type-locality: [Introduction, p. 75] "Tsushima Island . . . western Japan]; [p. 89] "in the town of Izuhara". — Distr.: **PA**: Japan.

williamsi HARDY, 1960: *Insects of Hawaii* **10**: 135 (*Orthocladius* (*Orthocladius*)). Type-locality: {Hawaiian Islands} "Honolulu, H.S.P.A. Expt. Sta." [= Honolulu, Hawaiian Sugar Planters' Association Experimental Station]. — Distr.: **OC**: Hawaiian Islands (Hawaii Island, Oahu Island).

Nomina dubia in ORTHOCLADIINAE

CATALIPTUS BEZZI, 1916: *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord* **7**: 94. Type-species: *Cataliptus peyerimhoffi* Bezzi, 1916, by original designation. **[Note]**

CONOCLADIUS KIEFFER, 1910: *Memoirs of the Indian Museum* **2**(4): 242. Type-species: *Conocladius flavus* Kieffer, 1910, by monotypy. **[Note]**

DACTYLOCLADIUS KIEFFER, 1906: *Genera Insectorum* **42**: 26 (as subgenus of *Orthocladius* Wulp, 1874). Type-species: *Orthocladius brevicornis* Kieffer, 1906, by subsequent designation of Kieffer (1906: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **30**: 356). Senior homonym of *Dactlyocladius* Kieffer, 1906 (below).

DACTYLOCLADIUS KIEFFER, 1906: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **30**: 356 (as subgenus of *Orthocladius* Wulp, 1874). Type-species: *Orthocladius brevicornis* Kieffer, 1906, by original designation. **Preoccupied**. Junior homonym of *Dactlyocladius* Kieffer, 1906 (above).

DOLICHOCLADIUS KIEFFER, 1911: *Records of the Indian Museum* **6**(3): 176. Type-species: *Dolichocladius heteropterus* Kieffer, 1911, by monotypy.

EUTRICHOCLADIUS GOWIN, 1943: *Archiv für Hydrobiologie* **40**(1): 114. Type-species: *Eutrichocladius strenzkei* Gowin, 1943, by monotypy.

MICROCLADIUS KIEFFER, 1908: *Denkschriften der Medizinisch-Naturwissenschaftlichen Gesellschaft zu Jena* **13**: 157. Type-species: Not given. **[Note]**

PSEUDHYDROBAENUS BRÈTHES, 1913: *Boletin del Museo Nacional de Chile* **4**(2): 219 (as "*Pseudhydrobœnus*" and "*Pseudhidrobœnus*"). Type-species: *Pseudhydrobaenus porteri* Brèthes, 1913, by monotypy. **[Note]**

PSEUDHIDROBAENUS: incorrect original spelling.

RHOPALOCLADIUS KIEFFER, 1911: *Records of the Indian Museum* **6**(5): 347. Type-species: *Rhopalocladius himalayae* Kieffer, 1911, by monotypy.

SPANIOTOMA PHILIPPI, 1866: *Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien (Abhandlungen)* **15**(4): 629. Type-species:

Spaniotoma bivittata Philippi, 1866, by subsequent designation of Johannsen (1905: *Bulletin of the New York State Museum* **86**: 162). [**Note**]

STENOCLADIUS KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 133. Type-species: *Camptocladius heterocerus* Kieffer, 1918, by original designation. **Preoccupied**. Junior homonym of *Stenocladius* Deyrolle & Fairmaire, 1878 (Coleoptera: Lampyridae).

TRICHOCLADIUS KIEFFER, 1906: *Genera Insectorum* **42**: 25. Type-species: *Orthocladius* (*Trichocladius*) *fissicornis* Kieffer, 1906, by monotypy. Senior homonym of *Trichocladius* Kieffer, 1906 (below).

TRICHOCLADIUS KIEFFER, 1906: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **30**: 356 (as subgenus of *Orthocladius* Wulp, 1874). Type-species: *Orthocladius* (*Trichocladius*) *fissicornis* Kieffer, 1906, by original designation. **Preoccupied**. Junior homonym of *Trichocladius* Kieffer, 1906 (above). [**Note**]

adhaerius PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 134 (*Cricotopus*). Type-localities: [Tajikistan] **na ploskogor'e Ruidasht** [= on the Ruidasht Plateau]; **v r. Varzob** [= in the River Varzob]; **r. Lyuchob** [= River Lyuchob]; **v doline r. Kafirnigan v Gissarskom** [= in the valley of the River Kafirnigan at Gissarsk, now River Kafirnigan = River Kofarnihon]; **v r. Khanakinke** [= in the River Khanakinke].

aegyptius KIEFFER, 1925: *Bulletin de la Société Royale Entomologique d'Égypte* **8** (1924): 306 (*Cricotopus*). Type-locality: {Egypt} "Maadi".

aestivalis KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 93 (*Acricotopus*). Type-locality: [Germany] "Holstein".

agilis GOETGHEBUER, 1944: *Biologisch Jaarboek* **11**: 41 (*Smittia*). Type-locality: "Grèce : Hellenika" [Grèce = Greece].

albicauda KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 20 (*Phaenocladius*). Type-locality: [Russia] {Nouvelle-Zemble} "Baie Pomorskaya, Detroit Matotchkin".

albiclava KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie*

(Mémoires) **42**: 161 (*Metriocnemus*). Type-locality: [Czech Republic] "Bohême : Königgrätz" [= Bohemia : Hradec Králové].

albidohalteralis MALLOCH, 1915: *Bulletin of the Illinois State Laboratory of Natural History* **10**: 528 (*Orthocladius* (*Dactylocladius*)). Type-locality: [U.S.A.] "Monticello, Ill., . . . on bank of Sangamon River" [Ill. = Illinois].

albifolium KIEFFER, 1921: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **40**: 290 (*Camptocladius*). Type-locality: [Latvia] [p. 275] "environs de Libau, en Courlande" [= vicinity of Libau (now Liepaja), in Courland (now Kurzeme)].

albipennis KIEFFER in THIENEMANN & KIEFFER, 1916: *Archiv für Hydrobiologie Supplement* **2**(3): 535 (*Metriocnemus*). Type-locality: {Sweden} [footnote, p. 536] "in Jönköping am Ufer des Vättern" [= in Jönköping on the shore of Vättern].

albocinctus STROBL, 1880: *Dipterologische Funde um Seitenstetten*: 54 (*Chironomus*). Type-locality: [Austria] {Seitenstetten} "in der Fröschelau" [= in the Fröschelau].

albocinctus KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 186 (*Trichocladius*; as var of *atrimanus* Kieffer, 1911). Type-locality: [Introduction] "Allemagne" [= Germany].

alboclavatus KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 83 (*Metriocnemus*). Type-locality: [Germany] "Sleswig-Holstein, larves dans un lac" [= Schleswig-Holstein, larvae in a lake].

albrechti KIEFFER in ALBRECHT, 1924: *Verhandlungen der Internationalen Vereinigung für theoretiische und angewandte Limnologie* **2**: 192 (*Trichocladius*). Type-locality: [Austria] [Title, p. 183] "Mittersees bei Lunz (Nieder-Oesterreich)" [= 'Middle Lake' near Lunz (Province of Lower Austria)].

algarum KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 124 (*Trichocladius*). Type-locality: [Turkey] "Asie-Mineure: Karabag" [= Asia Minor: Karabag]. **Preoccupied**. Junior primary homonym of *Trichocladius*

algarum Kieffer, 1911 – the latter is now a valid species of *Cricotopus* (*Cricotopus*). [**Note**]

algerina MARCUZZI, 1950: *Annalen des Naturhistorischen Museums in Wien* **57**: 278 (*Smittia*). Type-locality: "Zahrez-Gharbi, Algeria centrale" [= Zahrez-Gharbi, central Algeria].

algerinus MARCUZZI, 1950: *Annalen des Naturhistorischen Museums in Wien* **57**: 276 (*Orthocladius*). Type-locality: "Guelt-es-Stel, Algeria centrale" [= Guelt-es-Stel, central Algeria].

alulatus GOETGHEBUER, 1934: *Bulletin et Annales de la Société Entomologique de Belgique* **74**(10): 338 (*Metriocnemus*). Type-locality: [Germany] "Larves dans une source, à une altitude de 825 m. environ (G.-P.)" [= Larvae in a spring, at an altitude of about 825 metres (Garmisch-Partenkirchen)].

amniculorum GOETGHEBUER, 1935: *Archiv für Hydrobiologie* **28**: 604 (*Orthocladius* (*Dactylocladius*)). Type-locality: [Germany] [Anmerkung = Note, p. 604] "aus der Kossau, einem kleinen, schnellfließenden Flüßchen nördlich von Plön (Holstein)" [= from the Kossau, a small, fast-flowing stream north of Plön (Holstein)].

ampullaceus KIEFFER in KIEFFER & THIENEMANN, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 7 (*Trichocladius*). Type-locality: [France] "Lothringen: Phillipsburg" [= Lorraine: Phillipsbourg].

angorensis KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 131 (*Camptocladius*). Type-locality: [Turkey] "Asie-Mineure: Angora" [= Asia Minor: Ankara].

angustipennis STROBL, 1895: *Mitteilungen des Naturwissenschaftlichen Vereins für Steiermark* **31**(1894): 191 (*Metriocnemus*). Type-locality: [Austria] {Steiermark} "Auf Sumpfwiesen der Krumau bei Admont" [= On the swamp meadows of Krumau near Admont]. [**Note**]

anomalus KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 184 (*Camptocladius*). Type-locality: [Introduction] "Allemagne" [= Germany]

‖ ► Type-locality: [Germany, Westphalia] "von feuchten Felswänden nahe der Glörsperre" [= from damp rock faces near the Glör Dam] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 76 ◄ ‖.

antennalis GOETGHEBUER, 1944: *Biologisch Jaarboek* **11**: 39 (*Orthocladius*). Type-locality: "Belgique : Melle (bois)" [= Belgium : Melle (forest)].

antennalis KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 84 (*Metriocnemus*). Type-locality: [Poland] "Silésie" [= Silesia].

aprilinus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 68 (*Orthocladius*). Type-locality: [Germany] "Ile de Rügen" [= island of Rügen].

aprilinus GOETGHEBUER, 1932: *Bulletin et Annales de la Société Entomologique de Belgique* **71**(11): 216 (*Orthocladius*). Type-locality: "Belgique: La Panne" [Belgique = Belgium]. [**Note**]

arcuatus KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 127 (*Camptocladius*). Type-locality: [India, Maharashtra] "Indes Orientales: Matheran" [= East Indies: Matheran].

arcuatus KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 81 (*Metriocnemus*). Type-locality: [France] "Deux-Sèvres : Niort". [**Note**]

argentinensis KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **44**: 83 (*Metriocnemus*). Type-locality: [page 73] "Argentine, aux environs de Alta Gracia, province de Cordoba" [= Argentina, vicinity of Alta Gracia, province of Cordoba.

articularis SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 197 (*Orthocladius* (*Orthocladius*)). Type-locality: {Canary Islands} "en la isla de la Palma" [= on the island of La Palma]. [**Note**]

articulatus: incorrect subsequent spelling.

asetosus PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 133 (as "*Cricotopus*?"). Type-localities: [Tajikistan] **v rodnike vyshe kurorta Khodzha-obi-garm** [= in springs above Khodzha-Obi-Garm Spa]; **v r.

Kondare** [= in the River Kondar]; **v r. Varzob nizhe g. Varzob** [= in the lower River Varzob at Varzob City]; **r. Kafirnigan bliz Yangi-bazara** [= River Kafirnigan near Yangi-Bazara; now = River Kofarnihon near Vahdat]; **v r. Khanakinke v Gissarskom raione** [= in the River Khanakinke in the Gissarsk District].

ater GOETGHEBUER, 1955: *Bulletin de l'Association Philomathique d'Alsace et de Lorraine* **9**: 167 (*Trichocladius*). Type-locality: "Lac des Feuilles (Groënland occidental) : 900 m. (69° 43'N, 49° 45'W)" [Groënland occidental = east Greenland].

atomus KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 128 (*Camptocladius*). Type-locality: [India, Maharashtra] "Indes Orientales: Matheran, à une hauteur de 800 m." [= East Indies: Matheran, at a height of 800 metres].

atomus KIEFFER, 1929: *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg* **66**: 301 (*Dactylocladius*). Type-locality: [Russia, Kaliningrad Region] "ZB . . . *Phragmites*-Zone" [ZB = Zehlaubruch moorland].

atratus KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 383 (*Metriocnemus*). Type-localities: France; "Autriche" [= Austria]; "Allemagne" [= Germany]; "Suède" [= Sweden]. [**Note**]

atractus: incorrect subsequent spelling.

atriclava KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 95 (*Phaenocladius*). Type-locality: [Poland] "Silésie" [= Silesia].

atriforceps KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 93 (*Acricotopus*). Type-locality: [Poland] "Silésie" [= Silesia].

atriforceps KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 87 (*Trichocladius*). Type-locality: "Allemagne du Nord, lac de Suhre" [= northern Germany, Suhre Lake].

atrimanus KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 186 (*Trichocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖ ► Type-localities: [Germany] "in den Fontinalisbüschen der Diemel bei

Niedermarsberg" [= in *Fontinalis* tufts in the Diemel at Niedermarsberg]; "Auch aus Thüringen (Gotha)" [= Also from Thüringia (Gotha)], in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 76]◄ ‖.

attenuatus KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 102 (*Orthocladius*). Type-locality: [Poland] "Silésie" [= Silesia].

austriacus GOETGHEBUER, 1938: *Bulletin et Annales de la Société Entomologique de Belgique* **78**(11): 455 (*Orthocladius*). Type-locality: [Austria] "en Basse-Autriche" [= in the Province of Lower Austria].

autumnalis GOETGHEBUER, 1949: *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* **25**(14): 5 (*Smittia*). Type-locality: "Belgique: Melle (bois)" [= Belgium: Melle (forest)].

autumnalis KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 384 (*Cricotopus*). Type-locality: [Germany] "Holstein, grand lac de Ploen" [= Holstein, Grosser Plöner See].

bacilliger KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 80 (*Phaenocladius*). Type-locality: [Germany, Schleswig-Holstein] "Voltigeant au-dessus de la mer Baltique" [= Flying over the Baltic Sea]. [**Note**].

barbatiforceps KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 186 (*Trichocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖►Type-locality: [Germany, Westphalia] "Wie vorige Art" [= Like the previous species], i.e. "im Bruthaus der Fürstenberger Forellenzuchtanstalt am Fenster" [= in the hatchery of the Fürstenberg trout rearing facility on the window], in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 76◄ ‖.

barbatus KIEFFER, 1900: *Annales de la Société Entomologique de France* **68**: 824 (*Orthocladius*). Type-locality: [France] "à Bitche" [= at Bitche].

bathophilus KIEFFER in THIENEMANN, 1916: *Verhandlungen des Naturhistorischen Vereins der Preussischen Rheinlande, Westfalens und des Regierungsbezirks*

Osnabrück **72**: 54 (*Camptocladius*). Type-locality: [Germany, Rhineland] [p. 14] "aus den Tiefenmoosen des Gemündener Maares" [= from the deep mosses of the Gemünden Maar]. [**Note**]

bicolor WALTL, 1837: *Isis* (Oken's) **1837**(4): 279 (*Chironomus*). Type-locality: [Germany, Bavaria] [Title, p. 279] "bey Passau" [= at Passau]. Senior primary homonym of *Chironomus bicolor* Zetterstedt. 1838 – the latter is now a junior synonym of *Nanocladius* (*Nanocladius*) *dichromus* (Kieffer, 1906). Senior synonym and senior primary homonym of *Chironomus bicolor* Meigen, 1838 (below). [**Note**]

bicolor MEIGEN, 1838: *Systematische Beschreibung* **7**: 7 (*Chironomus*). Type-locality: [Germany] "Baiern" [= Bavaria]. **Preoccupied**. Junior synonym and junior primary homonym of *Chironomus bicolor* Waltl, 1837 (above). Junior primary homonym of *Chironomus bicolor* Zetterstedt, 1838. [**Note**]

bicuspis KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 69 (*Orthocladius*). Type-locality: [Poland] "Silésie" [= Silesia]; [Introduction, p. 11] "sur un haut plateau tourbeux, nommé Seefelder" [= on a highland moor, named Seefelder].

bidens KIEFFER, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 30 (*Camptocladius*). Type-locality: [Title, p. 26] "Européens" [= European, i.e. Europe]. [**Note**]

bidentatus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 69 (*Dactylocladius*). Type-locality: [Germany] "Holstein". [**Note**]

bifasciatus MALLOCH, 1918: *Bulletin of the Brooklyn Entomological Society* **13**: 42 (*Orthocladius*). Type-locality: [.U.S.A.] "Stratford, Ill." [Ill. = Illinois] [Lectotype designation in Frison, 1927: *Bulletin of the Illinois State Natural History Survey* **16**: 173, [U.S.A.] "Stratford, Illinois"].

bifidus KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 103 (*Orthocladius*). Type-locality: [Poland] "Silésie" [= Silesia].

bifidus KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 156 (*Trichocladius*). Type-locality: [Czech Republic] "Bohême :

Königgrätz" [= Bohemia : Hradec Králové].

bilobatus KIEFFER, 1915: *Brotéria, Série Zoológica* **13**: 85 (*Orthocladius*; as "*Ortocladius*"). Type-locality: "Frankreich (Dauphiné: Lac de la Fare)" [= France (Dauphiné: Fare Lake)].

binodulus KIEFFER, 1921: *Archiv für Hydrobiologie Supplement* **2**(4): 789 (*Camptocladius*). Type-locality: [Germany] "Mecklenburg: Tollense-See". [**Note**]

bipilus KIEFFER, 1927: *Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Tartu* **33**: 63 (*Camptocladius*). Type-localities: "Estonia . . . Päsküllа-Moor bei Nömme" [= Estonia . . . Päsküllа-Moor near Nömme; "Zwischenmoor am Päskullabach" [= transitional moor on the Päskulla brook]; "Mävli-Moor, Dagö, Hochfläche" [= Mävli-Moor, Dagö, plateau].

bitensis KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 383 (*Metriocnemus*). Type-locality: [France] "Bitche".

biverticillatus GOETGHEBUER, 1938: *Bulletin et Annales de la Société Entomologique de Belgique* **78**(11): 455 (*Orthocladius*). Type-locality: "dans le Tyrol autrichien" [= in the Austrian Tyrol].

bivittata PHILIPPI, 1866: *Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien (Abhandlungen)* **15**(4): 629 (*Spaniotoma*). Type-locality: {Chile} "prope Santiago" [= near Santiago]. [**Note**]

boliviensis KIEFFER, 1917: *Annales Historico-Naturales Musei Nationalis Hungarici* **15**: 361 (*Dactylocladius*). Type-locality: "Bolivie : Cillutincara" [Bolivie = Bolivia].

bonolai GOETGHEBUER, 1931: *Bollettino di Zoologia* **2**: 135 (*Orthocladius*). Type-locality: [Title] [Norway] "Svalbard Nord-Orientale" [= north-eastern Svalbard].

borealis KIEFFER, 1913: *Bulletin de la Société d'Histoire Naturelle de Metz* **28**: 60 (*Dactylocladius*). Type-locality: [Introduction] "Islande" [= Iceland].

borealis KIEFFER in KIEFFER & THIENEMANN, 1919: *Entomologische Mitteilungen* **8**: 118 (*Metriocnemus*). Type-locality: [Norway] "Lofoten".

borealis KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to*

Novaya Zemlya **2**: 19 (*Phaenocladius*). Type-locality: [Russia] {Nouvelle-Zemble} "Ile Berkh" [= Berek Island].

brevicornis KIEFFER, 1906: *Annales de la Sociétés Scientifique de Bruxelles, 2e partie (Mémoires)* **30**: 331 (*Orthocladius*). Type-locality: [France] "Bitche".

brevicornis KIEFFER, 1906: *Genera Insectorum* **42**: 26 (*Orthocladius* (*Dactylocladius*)). Localities: "Allemagne" [= Germany]; [France] "Lorraine". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

brevicornis KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 162 (*Metriocnemus*). Type-locality: [Germany] "Rhénanie : Eifel, larve dans du foin pourri" [= Rheinland : Eifel, larva in rotten hay].

breviradius KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 200 (*Metriocnemus*). Type-locality: Not given ‖►Type-locality: [Germany, Westphalia] "nahe der Glörsperre" [= near the Glör Dam] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 77◄‖.

bulgarensis GOETGHEBUER, 1938: *Bulletin et Annales de la Société Entomologique de Belgique* **78**(11): 456 (*Orthocladius*). Type-locality: "à Gebedze (Bulgarie)" [= at Gebedze (Bulgaria)].

calosandalum KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 133 (*Dactylocladius*). Type-locality: [India, Maharashtra] "Indes-Orientales: Matheran, à une hauteur de 800 m." [= East Indies: Matheran, at a height of 800 metres].

calosandalum KIEFFER, 1921: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **40**: 294 (*Trichocladius*). Type-locality: [Latvia] [p. 275] "environs de Libau, en Courlande" [= vicinity of Libau (now Liepaja), in Courland (now Kurzeme)].

canariensis SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 231 (*Metriocnemus*; as "*Canariensis*"). Type-locality:

{Canary Islands} "en la isla de la Palma" [= on the island of La Palma].

carbonarius MEIGEN, 1804: *Klassifikazion und Beschreibung der europäischen zweiflügligen insekten* **1**: 18 (*Chironomus*). Type-locality: [Title] "europäischen" [= European].

cavistylus KIEFFER, 1926: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **45**: 102 (*Trichocladius*). Type-locality: "Russie : lac Elton" [= Russia, Southern European Territory : Lake El'mon].

chilensis KIEFFER, 1906: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **30**: 354 (*Orthocladius*). Type-locality: "Chili, Concepcion" [Chili = Chile].

chilensis KIEFFER, 1906: *Genera Insectorum* **42**: 27 (*Orthocladius* (*Orthocladius*)). Locality: "Chili" [= Chile]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

cinctus GOETGHEBUER, 1940: *Bulletin et Annales de la Société Entomologique de Belgique* **80**(1): 57 (*Metriocnemus*). Type-locality: [Introduction, p. 55] "aux environs d'Abisko, en Laponie Suédoise" [= in the vicinity of Abisko, in Swedish Lapland]; [p. 58] "dans une forêt de bouleaux" [= in a birch forest].

clavaticornis KIEFFER, 1915: *Zoologische Jahrbücher, Abteilung Systematik, Ökologie und Geographie der Tiere* **39**: 118 (*Dactylocladius*). Type-locality: {Faroes} "Midvaag, Bösdalafos".

clavaticornis KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 89 (*Cricotopus*). Type-locality: [Poland] "Silésie" [= Silesia].

clepsydrus COQUILLETT, 1902: *Proceedings of the United States National Museum* **25**: 92 (*Orthocladius*). Type-locality: [U.S.A.] "Las Vegas Hot Springs, New Mexico".

clinoneurus KIEFFER, 1926: *Entomologische Mitteilungen* **15**: 103 (*Metriocnemus*). Type-locality: [Slovakia] "Ungarn : Pistyan" [= Hungary : Piešťany, locality now in Slovakia].

compressa JOHANNSEN, 1932: *Archiv für Hydrobiologie Supplement* **9**: 729 *(Spaniotoma*

(*Orthocladius*)). Type-locality: [Indonesia] "in moss near spring, Ranu Pakis, East Java".

consimilis GOETGHEBUER in GOETGHEBUER & LENZ, 1950: *Die Fliegen der Palaearktischen Region* **13g**: 194 (*Trichocladius*). Type-locality: "Austria".

coracellus KIEFFER, 1915: *Brotéria, Série Zoológica* **13**: 83 (*Trichocladius*). Type-locality: "Frankreich (Grenoble" [= France (Grenoble].

corax KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 65 (*Orthocladius*). Type-locality: [Poland] "Silésie" [= Silesia]; [Introduction, p. 11] "sur un haut plateau tourbeux, nommé Seefelder" [= on a highland moor, named Seefelder].

cornis PANKRATOVA, 1972: *Trudy Zoologicheskogo Instituta, Leningrad* **51**: 158 (*Brillia*). Type-locality: [Uzbekistan] {Uzbekskoi SSR} "v rodnikovom ruch'e v 40 km k severo-vostoky ot Nuraty" [= in spring brooks about 40 kilometres to the north-east of Hurata (now Nurada)]. [**Note**]

corporaali GOETGHEBUER, 1935: *Wissenschaftliche Ergebnisse der Niederländischen Expeditionen in den Karakorum und die angrenzenden Gebiete in den Jahren 1922, 1925 und 1929/30* **1**: 393 65 (*Orthocladius* (*Dactylocladius*); as "*Corporaali*"). Type-locality: [India, Jammu and Kashmir, Ladakh] "Khardung valley (4000 m)".

crassicorpus KIEFFER, 1924: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **43**: 266 (*Acricotopus*). Type-locality: [Indonesia] [p. 262] "de Buitenzorg, en Java" [= from Buitenzorg (now Bogor), in Java].

crassipes KIEFFER, 1915: *Zoologische Jahrbücher, Abteilung Systematik, Ökologie und Geographie der Tiere* **39**: 116 (*Metriocnemus*). Type-locality: {Faroes} "SW.-Hang O. Slættaratindur Wiese, Höhe von 400—500 m" [= South-west slope, East Slættaratindur meadow, height of 400—500 metres].

crassus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 83 (*Trichocladius*). Type-locality: [Germany] "Holstein, larve dans une source" [= Holstein, larva in a spring].

curtipalpis KIEFFER, 1913: *Bulletin de la Société d'Histoire Naturelle de Metz* **28**: 29 (*Trichocladius*). Type-locality: {Allemagne} [= Germany] "Lac de Maria-Laach" [= Maria-Laach Lake].

dampfi KIEFFER, 1927: *Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Tartu* **33**: 63 (*Camptocladius*; as "*Dampfi*"). Type-locality: "Estonia . . . Ellamaa-Moor, Hochfläche" [= Estonia . . . Ellamaa-Moor, plateau].

davidi GOETGHEBUER, 1950: *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* **26**(47): 13 (*Smittia*; as "*Davidi*"). Type-locality: "Chartreuse de Montrieux (France)".

decor SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 232 (*Metriocnemus*). Type-locality: {Canary Islands} "en la isla de la Palma, en el Barranco del Río" [= on the island of La Palma, in the Barranco del Río].

dentatipalpis KIEFFER, 1927: *Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Tartu* **33**: 64 (*Camptocladius*). Type-localities: "Estonia . . . Warudi-Moor bei Port Kunda, . . . Niedermoorwiese"; "Ellamaa-Moor, . . . auf Erlengebüsch am Bahndamm Reval-Hapsal"; "Ellamaa-Moor, . . . Kiefernrandzone".

dentatus KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 157 (*Trichocladius*). Type-locality: [Czech Republic] "Bohême".

devius KIEFFER in THIENEMANN, 1916: *Verhandlungen des Naturhistorischen Vereins der Preussischen Rheinlande, Westfalens und des Regierungsbezirks Osnabrück* **72**: 52 (*Camptocladius*). Type-locality: [Germany, Rhineland] [p. 13] "auf dem Ulmener Maar" [= on the Ulmen Maar]. **[Note]**

distalis GOETGHEBUER, 1949: *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* **25**(14): 2 (*Orthocladius*). Type-locality: "Irelande: Env. de Dublin" [= Ireland: vicinity of Dublin].

distylus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 91

(*Trichocladius*). Type-locality: [Germany] "Holstein, larve dans une source du lac Dicksee" [= Holstein, larva in a spring of the Dieksee].

ditomus KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 561 (*Camptocladius*). Type-locality: [Poland] "Prusse occidentale" [= western Prussia].

diversus WULP, 1875: *Tijdschrift voor Entomologie* **17**(5): 139 (*Orthocladius*). Type-localities: [Netherlands] "Utrecht"; "Overveen".

doloplastoides LUNDSTRÖM in POPPIUS, LUNDSTRÖM & FREY, 1917: *Naturwissenschaftliche Untersuchungen des Sarekgebirges in Schwedisch-Lappland* **4**(6): 670 (*Orthocladius*). Type-localities: {Lapponia suecica} [= Swedish Lapland] "Sarek . . . Auf *Carices* am Ufer eines im Süden von der Säkokhütte gelegenen Sees; Birkenregion" [= Sarek . . . On *Carex* sedges on the shore of a lake situated to the south of the Säkok hut; birch region]. [**Note**]

dubiosus KIEFFER in THIENEMANN & KIEFFER, 1916: *Archiv für Hydrobiologie Supplement* **2**(3): 531 (*Camptocladius*). Type-locality: {Sweden} "in Jönköping am Ufer des Vättern" [= in Jönköping on the shore of Vättern].

dubiosus KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 89 (*Cricotopus*). Type-locality: [Poland] "Silésie" [= Silesia].

dystrophilus CHERNOVSKII, 1949: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 148 (as "*Limnophyes* ?"). Type-locality: [Russia] **naidena distrofnom ozere pod Leningradom** [= found in a dystrophic lake near Leningrad (now Saint Petersburg)].

ellipsoidalis KIEFFER, 1915: *Brotéria, Série Zoológica* **13**: 86 (*Dactylocladius*). Type-locality: "Deutschland" [= Germany].

faeroensis KIEFFER, 1915: *Zoologische Jahrbücher, Abteilung Systematik, Ökologie und Geographie der Tiere* **39**: 117 (*Metriocnemus*). Type-locality: {Faroes} "Midvaag". [**Note**]

faroensis: incorrect subsequent spelling.

fallax KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 185

(*Trichocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖ ► Type-localities: [Germany, Westphalia] "Im Sauerland verbreitet: . . . in der Kleinbahn Haspe-Breckerfeld" [= widespread in Saarland: . . . in the narrow-gauge Haspe-Breckerfeld railway]; "in der Bahn Hagen-Vollme" [= in the Hagen-Vollme (now Volme) railway] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 75-76 ◄ ‖.

filipalpis KIEFFER, 1927: *Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Tartu* **33**: 65 (*Camptocladius*). Type-locality: "Estonia . . . Ulila Moor bei Dorpat, Torfwiese am Ulilabach" [= Estonia . . . Ulila moor near Tartu, peat meadow at the Ulila brook].

fischeri KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 385 (*Cricotopus*; as "*Fischeri*"). Type-locality: [Germany] "Bavière" [= Bavaria].

fissicornis KIEFFER, 1906: *Genera Insectorum* **42**: 27 (*Orthocladius* (*Trichocladius*)). Type-locality: "Chili" [= Chile]. Senior primary homonym of *Orthocladius* (*Trichocladius*) *fissicornis* Kieffer, 1906 (below). [**Note**]

fissicornis KIEFFER, 1906: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **30**: 355 (*Orthocladius* (*Trichocladius*)). Type-locality: "Chili, Concepcion" [Chili = Chile]. **Preoccupied**. Junior primary homonym of *Orthocladius* (*Trichocladius*) *fissicornis* Kieffer, 1906 (above). [**Note**]

flavellus ZETTERSTEDT, 1838: *Insecta Lapponica* [Heft 3]: 816 (*Chironomus*). Type-locality: [Sweden] "in Lapponia Umensi ad Lycksele" [= in Umeå Lapland at Lycksele].

flaveolus GOETGHEBUER in GOETGHEBUER, HUMPHRIES & FITZGERALD, 1949: *Hydrobiologia* **1**(3): 420 (*Orthocladius*). Type-locality: [Ireland] [p. 410] "the River Dodder, a tributary of the river Liffey".

flavescens GOETGHEBUER, 1942: *Bulletin du Musée Royal d'Histoire Naturelle de Belgique* **18**(46): 13 (*Smittia*). Type-locality: "Belgique : Heusden-lez-Gand" [Belgique = Belgium].

flavibasis MALLOCH, 1915: *Bulletin of the Illinois State Laboratory of Natural History* **10**: 511 (*Camptocladius*). Type-locality: [U.S.A.] "Urbana, Ill." [Ill. = Illinois].

flaviceps KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 383 (*Metriocnemus*). Type-locality: [Czech Republic or Slovakia] "Tchécoslovaquie" [= Czeckoslovakia]

flavicollis KIEFFER, 1911: *Records of the Indian Museum* **6**(3): 176 (*Psectrocladius*). Type-locality: [India, West Bengal] "Calcutta" [= Kolkata].

flaviventris KIEFFER, 1921: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **40**: 289 (*Camptocladius*). Type-locality: [Latvia] [p. 275] "environs de Libau, en Courlande" [= vicinity of Libau (now Liepaja), in Courland (now Kurzeme)].

flavus KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 127 (*Camptocladius*). Type-locality: [India, Maharashtra] "Indes-Orientales: Bombay" [= East Indes: Bombay (now Mumbai)].

fluviatilis KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 140 (*Orthocladius*). Type-locality: [Czech Republic] "Moravie : fleuve d'Ostava" [= Moravia : Ostava River].

foliaceus KIEFFER, 1921: *Archiv für Hydrobiologie Supplement* **2**(4): 789 (*Camptocladius*). Type-locality: [Germany] "Mecklenburg: Tollense-See". [**Note**]

foliifera GOETGHEBUER, 1937: *Bulletin et Annales de la Société Entomologique de Belgique* **77**(6): 277 (*Smittia* (*Phaenocladius*)). Type-locality: "à Poperinghe . . . (Belgique)" [= at Poperinghe . . . (Belgium)].

fontinalis KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 100 (*Metriocnemus*). Type-locality: [Germany] "Ile de Rügen, larve dans une source" [= island of Rügen, larva in a spring].

fontinalis KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 385 (*Cricotopus*). Type-locality: [Austria] "Basse-Autriche" [= Province of Lower Austria].

fossarum KIEFFER, 1909: *Bulletin de la Société d'Histoire Naturelle de Metz* **26**: 47

(*Trichocladius*; as "*Fossarum*"). Type-locality: {Allemagne} [= Germany] "dans un fossé près de Münster en W." [= in a ditch near Münster in Westphalia].

fractinervis KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 119 (*Metriocnemus*). Type-localities: [Turkey] "Asie-Mineure: Konia" [= Asia Minor: Konia (now Konya)]; "Bashara-Su"; "à une altitude de 1400 m, Bashara-Sille" [= at an altitude of 1400 metres, Bashara-Sille].

franzi GOETGHEBUER, 1949: *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* **25**(14): 4 (*Orthocladius*; as "*Franzi*"). Type-locality: "Autriche: Hausselberg b. Leoben" [= Austria: Hausselberg at Leoben].

fulviscutellatus SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 188 (*Camptocladius*). Type-locality: {Canary Islands} "en Santa Cruz de la Palma".

fulvonotatus KIEFFER, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 36 (*Camptocladius*). Type-locality: [Title, p. 26] "Européens" [= European, i.e. Europe] ‖►Type-locality: "Nord de l'Allemagne, source du lac Dicksee" [= northern Germany; spring by the lake Dieksee] in Kieffer, 1923: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 76◄‖. Senior primary homonym of *Camptocladius fulvonotatus* Kieffer, 1924 (below). [**Note**]

fulvonotatus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 76 (*Camptocladius*). Type-locality: "Nord de l'Allemagne, source du lac Dicksee" [= northern Germany; spring by the lake Dieksee]. **Preoccupied**. Junior primary homonym of *Camptocladius fulvonotatus* Kieffer, 1922 (above).

fulvus KIEFFER, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 34 (*Camptocladius*; as var. of *exiguus* Goetghebuer, 1913). Type-locality: [Title, p. 26] "Européens" [= European, i.e. Europe]. [**Note**]

fuscicauda KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 88 (*Trichocladius*). Type-locality: [Germany] "Holstein, larve dans une source" [=

Holstein, larva in a spring].

fusciceps KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 66 (*Orthocladius*). Type-locality: [Poland] "Silésie" [= Silesia]; [Introduction, p. 11] "sur un haut plateau tourbeux, nommé Seefelder" [= on a highland moor, named Seefelder].

fuscifolium KIEFFER, 1921: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **40**: 291 (*Camptocladius*). Type-locality: [Latvia] [p. 275] "environs de Libau, en Courlande" [= vicinity of Libau (now Liepaja), in Courland (now Kurzeme)].

fusciforceps KIEFFER, 1915: *Brotéria, Série Zoológica* **13**: 84 (*Trichocladius*). Type-locality: "Deutschland" [= Germany].

fuscus KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 182 (*Dactylocladius*). Type-locality: [Introduction] "Allemagne" [= Germany].

fusicornis GOETGHEBUER in GOUIN, 1936: *Revue Française d'Entomologie* **3**: 172 (*Eukiefferiella*). Type-locality: {France} "(Barrage de Vaux)".

galactinus KIEFFER, 1915: *Zoologische Jahrbücher, Abteilung Systematik, Ökologie und Geographie der Tiere* **39**: 119 (*Dactylocladius*). Type-localities: {Faroes} "Sandö (Wiesenhang" [= Sandö (grassy slope]; "Saxental, Wiese bei Wasserscheide" [= Saxental, meadow near Wasserscheide].

galae PANKRATOVA, 1954: *Zoologicheskii Zhurnal* **33**(6): 1295 (*Metriocnemus*). Type-locality: [Russia, Northern European Tettitory] **iz oz. Malyi Bud″yavr na Kol′skom poluostrove, na glubine10,5 m** [= from Lake Malyi Bud″yavr on the Kola Peninsula, at a depth of 0.5 metres].

gelidus KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 22 (*Camptocladius*). Type-locality: [Russia] {Nouvelle-Zemble} "Le plus septentrionale d'Iles Vrestovii" [= the northernmost of the Vrestovii Islands].

glacialis KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 15 (*Orthocladius*). Type-locality: [Russia] {Nouvelle-

Zemble} "Gribovii Fjord".

glacialis KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 18 (*Trichocladius*). Type-locality: [Russia] {Nouvelle-Zemble} "Archangelbugten" [= Archangel Bay]. [**Note**]

gracilipes KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 126 (*Camptocladius*). Type-locality: [India, Maharashtra] "Indes-Orientalis: Matheran, à une hauteur de 800 m." [= East Indies: Matheran, at a height of 800 metres].

grandipalpis KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 88 (*Cricotopus*). Type-locality: [Poland] "Silésie" [= Silesia].

griseicollis SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 203 (*Orthocladius* (*Orthocladius*)). Type-locality: {Canary Islands} "en la isla de la Palma" [= on the island of La Palma].

guineensis KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 84 (*Trichocladius*). Type-locality: [Guinea] "Guinée française: Mamon" [French Guinea: Momon (error, Mamon = Mamou]. [**Note**]

haesitans KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 98 (*Metriocnemus*). Type-locality: [Poland] "Silésie" [= Silesia]; [Introduction, p. 11] "sur un haut plateau tourbeux, nommé Seefelder" [= on a highland moor, named Seefelder].

halobius KIEFFER, 1915: *Archiv für Hydrobiologie Supplement* **2**(4): 477 (*Dactylocladius*). Type-locality: [Germany] "Sassendorf".

halocryptus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 76 (*Camptocladius*). Type-locality: "Nord de l'Allemagne, larve dans l'eau salée" [= northern Germany, larva in salt water].

hamatipes KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 182 (*Dactylocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖ ► Type-locality: [Germany] "im Bruthaus der Forellenzuchtanstalt Fürstenberger i. W." [= in the hatchery of the Fürstenberg in Westphalia trout

rearing facility] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 78◄ ‖.

hamatitarsis KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 184 (*Dactylocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖ ► Type-localities: [Germany] "Breckerfeld"; "an der Hennetalsperre" [= at the Henne Dam] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 79]◄ ‖.

hamifer KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 183 (*Dactylocladius*). Type-locality: [Introduction] "Allemagne" [= Germany].

harnischi KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 65 (*Orthocladius*; as "*Harnischi*"). Type-locality: [Introduction, p. 11] [Poland] "en Silésie, sur un haut plateau tourbeux, nommé Seefelder" [= in Silesia, on a highland moor, named Seefelder]. [**Note**]

heptameris KIEFFER in KIEFFER & THIENEMANN, 1919: *Entomologische Mitteilungen* **8**: 115 (*Dactylocladius*). Type-locality: "Spitzbergen: Kingsbai" [Kingsbai = Kings Bay].

heptatomus KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 95 (*Phaenocladius*). Type-locality: [Poland] "Silésie" [= Silesia]. [**Note**]

heterocerus KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 132 (*Camptocladius*). Type-locality: [Turkey] "Asie-Mineure: Angora" [= Asia Minor: Ankara].

hiberna POLISHCHUK, 1963: *Dopovidi Akademii Nauk Ukrains'koi RSR* **12**: 1645 (*Smittia*). Type-localities: [Ukraine] [p. 1649, English Summary] "in the Desna river in the area of the confluence of the Shostka and Strizhen"; "in the flood-plain basins of the Desna near Chernigov"; "in the Belous near the village Padusovska"; "in the confluent of the Desna — the Shostka river".

hiberna POLISHCHUK, 1972: *Materiali chetvertoi konferentsii molodikh uchenikh Institutu gidrobiologii AN URSR*: 45 (*Limnophyes*). Type-locality: [Ukraine] **Kalyuzha, utvorena tanennyam snigu mizh selami Chervonoarmiis'ke i

Orikhivka /Bolgrads'kii r-n Odes'koi obl.** [= Melt water puddle between the villages of Krasnoarmeiskoe and Orekhivka, Bolgrads'kii District of Odessa Oblast]. [**Note**]

hyberna: incorrect ubsequent spelling.

himalayae KIEFFER, 1911: *Records of the Indian Museum* **6**(3): 176 (*Rhopalocladius*). Type-locality: [India, Himachal Pradesh] "Himalaya occidental: Barogh, montagnes de Simla, à une altitude de 1670 mètres" [= western Himalayas: Barogh, mountains of Simla, at an altitude of 1670 metres].

hirsutulus SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 233 (*Metriocnemus*). Type-locality: {Canary Islands} "en la isla de la Palma, . . . en la Dehesa de la Encarnación" [= on the island of La Palma, . . . on the Dehesa de la Encarnación].

hirticercus KIEFFER, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 34 (*Camptocladius*). Type-locality: [Title, p. 26] "Européens" [= European, i.e. Europe]. [**Note**]

hockaiensis GOETGHEBUER, 1933: *Bulletin et Annales de la Société Entomologique de Belgique* **72**(11/12): 289 (*Orthocladius* (*Dactylocladius*)). Type-locality: [Belgium] "pris à Hockai (Hautes-Fagnes)" [= taken at Hockai (Hautes-Fagnes)]. [**Note**]

hrabei PAGAST in ZAVŘEL & PAGAST, 1935: *Časopis České Společnosti Entomologické* **32**(4): 159 (*Spaniotoma* (*Orthocladius*); as "*hraběi*"). Type-locality: [Slovakia] {Hoher Tatra} [= High Tatra] "aus dem See »Pleso pod Skokem« (1700 m)" [= from the lake »Pleso pod Skokem« (1700 metres)].

imberbipes GOETGHEBUER, 1942: *Bulletin du Musée Royal d'Histoire Naturelle de Belgique* **18**(46): 16 (*Metriocnemus*). Type-locality: "Autriche : Bords de la Lunzersee" [= Austria : shore of a lake at Lunz].

immundus ZETTERSTEDT, 1838: *Insecta Lapponica* [Heft 3]: 816 (*Chironomus*). Type-locality: [Sweden] "in Lapponia Umensi ad Lycksele" [= in Umeå Lapland at Lycksele].

inaequalis KIEFFER in ZAVŘEL, 1926: *Acta Societatis Scientiarum Naturalium Moravo-Silesiacae* **3**: 257 (*Trichocladius*). Type-locality: [Czech Republic, near Brno] [p. 261] "Říčkany u Domášova" [= Říčkany at Domašov].

indianus KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 133 (*Dactylocladius*). Type-locality: "Indes-Orientales: Singapore" [= East Indies: Singapore] .

inornatipes KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 75 (*Cricotopus*). Type-localities: "Tunisie: Djebel Djeloud"; "Djebel Mesratine"; "Carthage"; "Ain Draham"; "Bel Mehtia" [Tunisie = Tunisia].

insigniforceps KIEFFER, 1929: *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg* **66**: 301 (*Orthocladius*). Type-locality: [Russia, Kaliningrad Region] "Zehlaubruch, am Inselblänkenufer" [= Zehlaubruch moorland, on the Inselblänken banks (around pools)].

insulanus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 70 (*Orthocladius*). Type-locality: [Germany] "Ile de Rügen" [= island of Rügen].

islandicus KIEFFER, 1913: *Bulletin de la Société d'Histoire Naturelle de Metz* **28**: 59 (*Dactylocladius*). Type-locality: [Introduction] "Islande" [= Iceland].

islandicus KIEFFER, 1913: *Bulletin de la Société d'Histoire Naturelle de Metz* **28**: 60 (*Cricotopus*). Type-locality: [Introduction] "Islande" [= Iceland].

janetscheki GOETGHEBUER, 1941: *Bulletin du Musée Royal d'Histoire Naturelle de Belgique* **17**(37): 7 (*Orthocladius*; as "*Janetscheki*"). Type-locality: [Austria] "Alpes tyroliennes" [= Tyrolean Alps].

karicus CHERNOVSKII, 1949: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 150 (*Phaenocladius*; as "*karicus* Birula"). Type-locality: [Russia, border of Northern European Territory and West Siberia] **v nizhnem techenii r. Kary** [= in the lower reaches of the River Kara]. [**Note**]

kervillei KIEFFER, 1900: *Annales de la Société Entomologique de France* **68**: 821 (*Orthocladius*; as "*Kervillei*"). Type-locality: [France] "A Maisy (Calvados), dans un parc a huîtres abandonné" [= At Maisy (Calvados), in an abandoned

oyster enclosure].

kiefferulus GOETGHEBUER in GOETGHEBUER & LENZ, 1942: *Die Fliegen der Palaearktischen Region* **13g**: 64 (*Orthocladius* (*Eudactylocladius*); as "*Kiefferulus* nov. nom."; in 1943, **13g**: 68, as "*Kiefferiellus*", as nom. nov. for *Chironomus sordidellus* Zetterstedt, 1838 sensu Kieffer, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 139). Type-locality: Not given. ‖ ► Type-localities: "Aus Skandinavien und Deutschland" [= From Scandinavia and Germany] in Goetghebuer in Goetghebuer & Lenz, 1943: *Die Fliegen der Palaearktischen Region* **13g**: 68 ◄ ‖. [**Note**]

kiefferiellus: incorrect subsequent spelling.

lacroixi KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 97 (*Camptocladius*; as "*Lacroixi*"). Type-locality: [France] "Deux-Sèvres" ‖ ► Type-locality: [France] [p. 26] "aux environs de Niort" [= in the vicinity of Niort] in Kieffer, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 26 ◄ ‖. Senior primary homonym of *Camptocladius lacroixi* Kieffer, 1922 (below).

lacroixi KIEFFER, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 36 (*Camptocladius*; as "*Lacroixi*"). Type-locality: [France] [p. 26] "aux environs de Niort" [= in the vicinity of Niort]. **Preoccupied**. Junior primary homonym of *Camptocladius lacroixi* Kieffer, 1921 (above). [**Note**]

lacteipennis LUNDSTRÖM, 1910: *Acta Societatis pro Fauna et Flora Fennica* **33**(10): 19 (*Orthocladius*). Type-localities: [Finland] "Ab. Kuustö" [= Regio abiënsis. Kuustö]; "N. Helsingfors" [= Nylandia. Helsingfors] [Helsingfors = Helsinki]; "Ta. Kangasala"; [= Tavastia australis. Kangasala]; "Lapponia fenn." [= Lapponia fennica]. Senior primary homonym of *Orthocladius lacteipennis* Malloch, 1915.

lactescens GOETGHEBUER, 1932: *Bulletin et Annales de la Société Entomologique de Belgique* **72**(5): 128 (*Orthocladius*). Type-locality: [Latvia] "Courlande : Libau"

[= Courland (now Kurzeme) : Leipaja (now Liepaja)].

lacustris KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 147 (*Cricotopus*). Type-locality: "Allemagne du Nord: Lac du Tollensee" [= northern Germany: lake of Tollensee].

lacustris KIEFFER in THIENEMANN & KIEFFER, 1916: *Archiv für Hydrobiologie Supplement* **2**(3): 535 (*Metriocnemus*). Type-locality: {Sweden} [footnote, p. 536] "in Jönköping am Ufer des Vättern" [= in Jönköping on the shore of Vättern].

lanceolatus KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 199 (*Cricotopus*). Type-locality: Not given ‖►Type-locality: [Germany] "im Bruthaus der Forellenzuchtanstalt Fürstenberger i. W." [= in the hatchery of the Fürstenberg in Westphalia trout rearing facility], in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 77◄‖.

lanceolatus KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 98 (*Camptocladius*). Type-locality: [Poland] "Silésie" [= Silesia].

lenzi KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 560 (*Trichocladius*; as "*Lenzi*"). Type-locality: "Nord de l'Allemagne : lac de Schaal" [= northern Germany: Schaalsee].

lenzianus GOETGHEBUER, 1938: *Bulletin et Annales de la Société Entomologique de Belgique* **78**(1/2): 63 (*Orthocladius*; "*Lenzianus*"). Type-locality: "Allemagne" [= Germany].

leucura KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 87 (*Trichocladius*). Type-locality: [Germany] "Lac de Ploen, Holstein" [= Plöner See, Holstein].

litigiosus KIEFFER, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 26, 29, 32 (*Camptocladius*). Type-locality: [France] [p. 26] "aux environs de Niort" [= in the vicinity of Niort]. [**Note**]

ligitiosus: incorrect variant original spelling.

lineolatus SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 202 (*Orthocladius* (*Orthocladius*)). Type-locality: {Canary Islands} "en Santa Cruz de la Palma".

litoris KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 94 (*Acricotopus*). Type-locality: [Germany, Schleswig-Holstein] "voltigeant au-dessus de la mer Baltique . . . voltigeant sur le rivage de cette mer" [= flying over the Baltic Sea . . . flying on the shore of the same sea]. [**Note**]

littoris KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 229 (*Orthocladius*). Type-locality: [p. 227] [Germany] "voltigeant sur les bords de la mer Baltique, dans la baie de Hohwacht, au Holstein" [= flying on the shore of the Baltic Sea, in Hohwacht Bay, in Holstein].

lobatipennis KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 82 (*Orthocladius*). Type-locality: [Tunisia] "Tunis".

lobuliferus GOETGHEBUER & TIMON-DAVID, 1939: *Bulletin et Annales de la Société Entomologique de Belgique* **79**(1/2): 68 (*Orthocladius*; as "*lobulifera*"). Type-locality: [France] {iles du Golfe de Marseille} [= islands in the Gulf of Marseille] [p. 65-66] "POMÈGUES-RATTONEAU". [**Note**]

longicornis KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 162 (*Metriocnemus*). Type-locality: [Germany] "Rhénanie : Eifel" [= Rheinland : Eifel].

longipalpis KIEFFER, 1917: *Annales Historico-Naturales Musei Nationalis Hungarici* **15**: 360 (*Dactylocladius*). Type-locality: "Bolivie : Cillutincara" [Bolivie = Bolivia].

longiradius KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 181 (*Orthocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖ ► Type-localities: [Germany, Westphalia] "Aus dem Moos der Ruhr unterhalb Papierfabrik Wildshausen" [= From the moss in the Ruhr below the Wildshausen Paper Mill]; "der Ruhr oberhalb Nuttlar" [= the Ruhr above Nuttlar], in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-*

Vereins für Wissenschaft und Kunst **40**: 75◄‖.

longistylus KIEFFER in KIEFFER & THIENEMANN, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 37 (*Camptocladius*). Type-locality: Not given ‖►Type-locality: [Germany] "Insel Rügen" [= island of Rügen] in Kieffer in Kieffer & Thienemann, 1908): *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 78◄‖. Senior primary homonym of *Camptocladius longistylus* Kieffer, 1908 (below).

longistylus KIEFFER in KIEFFER & THIENEMANN, 1908: *Zeitschrift für Wissenschaftliche Insektenbiologie* **4**: 78 (*Camptocladius*). Type-locality: [Germany] "Insel Rügen" [= island of Rügen]. **Preoccupied**. Junior primary homonym of *Camptocladius longistylus* Kieffer, 1908 (above).

longistylus KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 9 (*Metriocnemus*). Type-locality: [Russia] {Nouvelle-Zemble} "Rivage 5 km. au nord de l'un bouchure du Mishigin Fjord" [= 5 kilometre shoreline to the north of the mouth of Mishigin Fjord] [error, Mishigin = Mashigin].

luctuosus KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 119 (*Metriocnemus*). Type-locality: [Turkey] "Asie-Mineure: Seraj-Köj" [= Asia Minor: Saraykoy].

lurulentus SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 240 (*Metriocnemus*). Type-locality: {Canary Islands} "en la isla de la Palma, . . . del Barranco del Río" [= on the island of La Palma, . . . del Barranco del Río].

macrochaetus KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 182 (*Dactylocladius*; as var of *hamifer* Kieffer, 1911). Type-locality: [Introduction] "Allemagne" [= Germany].

macrorhynchus KIEFFER, 1906: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **30**: 353 (*Orthocladius*). Type-locality: "Chili, environs de Concepcion" [= Chile, vicinity of Concepcion].

macrorhynchus KIEFFER, 1906: *Genera Insectorum* **42**: 27 (*Orthocladius* (*Orthocladius*)). Locality: "Chili" [= Chile]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

macrotomus KIEFFER in THIENEMANN & KIEFFER, 1916: *Archiv für Hydrobiologie Supplement* **2**(3): 542 (*Dactylocladius*). Type-locality: {Sweden} [section heading, p. 538] "Tiefenfauna des Vättern" [= deep fauna of Lake Vättern].

majalis KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 93 (*Acricotopus*). Type-locality: [Germany] "Lac Schwammer, au Holstein" [= Lake Schwammer, in Holstein].

maritimus CHERNOVSKII, 1949: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 120 (*Cricotopus*). Type-locality: [Russia, Northern European Territory] **naideny v litorali laguny Por'ei guby Belogo morya** [= found in the intertidal zone of a lagoon in Por'ei Bay on the White Sea]. [**Note**]

maritimus KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 229 (*Camptocladius*). Type-locality: [p. 227] [Germany] "voltigeant sur les bords de la mer Baltique, dans la baie de Hohwacht, au Holstein" [= flying on the shore of the Baltic Sea, in Hohwacht Bay, in Holstein].

maurus KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 83 (*Trichocladius*). Type-locality: [Tunisia] "Tunis".

melanopus KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 92 (*Acricotopus*). Type-locality: [Poland] "Silésie" [= Silesia]. [**Note**]

melanops: incorrect subsequent spelling.

melanosoma GOETGHEBUER, 1934: *Bulletin et Annales de la Société Entomologique de Belgique* **74**(10): 340 (*Orthocladius*). Type-locality: [Switzerland] "Röserenbach".

mercieri KIEFFER in MERCIER, 1923: *Annales de la Société Entomologique de Belgique* **63**: 10 (*Dactylocladius*; as "*Mercieri*"). Type-locality: [France] [p. 9] "Côte du

Calvados . . . sur un rocher situé dans la zone de balancement des marées, entre Luc et Lion-sur-Mer, et qui est connu dans le pays sous le nom de " Roche Mignon "." [= Calvados coast . . . on a rock located in the marine intertidal zone, between Luc and Lion-sur-Mer, which is known in the region by the name " Roche Mignon "]

meridionalis GOETGHEBUER & TIMON-DAVID, 1939: *Bulletin et Annales de la Société Entomologique de Belgique* **79**(1/2): 68 (*Orthocladius*). Type-locality: [France] {iles du Golfe de Marseille} [= islands in the Gulf of Marseille] [p. 65-66] "POMÈGUES-RATTONEAU". [**Note**]

micans KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 122 (*Cricotopus*). Type-locality: [Turkey] "Asie-Mineure: Basharu-Su" [= Asia Minor: Basharu-Su]. [**Note**]

microcera KONSTANTINOV, 1948: *Doklady Akademii Nauk SSSR* **63**(3): 336 (*Smittia*). Type-locality: [Russia, Far East] [Title, p. 333] **BASSEINA R. AMUR** [= basin of the Amur River].

micropelma KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 82 (*Metriocnemus*). Type-locality: [Poland] "Silésie" [= Silesia].

microtomus KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 154 (*Trichocladius*). Type-locality: [Germany] "Westphalie : larves dans *Fontinalis*, dans la Diemel" [= Westphalia : larvae in *Fontinalis*, in the Diemel].

microtomus KIEFFER, 1924: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **43**: 261 (*Camptocladius*). Type-locality: [Algeria] "Alger, au Jardin d'Essai" [= Algiers, at the Jardin d'Essai].

mimulus HOLMGREN, 1869: *Kungliga Svenska VetenskapsAkademiens Handlingar* **8**(5): 40 (*Chironomus*). Type-locality: [Norway] "Hab. in Beeren Eiland" [= Dwells in Bear Island].

minutissimus GOETGHEBUER, 1935: *Encyclopédie Entomologique, B-II, Diptera* **8**: 5 (*Metriocnemus*). Type-locality: [Russia] "Environs de Leningrad" [= Vicinity of

Leningrad (now Saint Petersburg].

minutulus GOETGHEBUER in GOETGHEBUER & LENZ, 1944: *Die Fliegen der Palaearktischen Region* **13g**: 137 (*Limnophyes*). Type-locality: [Austria] "Vom Lunzer See in Niederdonau . . . Germania" [= From a lake at Lunz in the Lower Danube . . . Germany].

minutus ZETTERSTEDT, 1850: *Diptera Scandinaviæ disposita et discripta* **9**: 3522 (*Chironomus*). Type-locality: [Sweden] "prope lacum Wettern ad Wadstena Ostrogothiæ" [= near Lake Vättern at Vadstena Östergötland].

montanus GOETGHEBUER, 1950: *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* **26**(47): 8 (*Metriocnemus*). Type-locality: "Schafberg (Autriche)".[= Schafberg (Austria)].

monticola KIEFFER, 1911: *Records of the Indian Museum* **6**(5): 346 (*Camptocladius*). Type-locality: [India, Himachal Pradesh] "Himalaya occidental: Simla, à une altitude de 2340 m." [= western Himalayas: Simla, at an altitude of 2340 metres].

monticola KIEFFER, 1919: *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord* **10**: 205 (*Orthocladius*). Type-locality: "Algérie : Pic des Mouzaïa" [= Algeria : peak of Mouzaïa].

multicolor SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 218 (*Orthocladius* (*Paratrichocladius*)). Type-locality: {Canary Islands} "en la isla de la Palma, en la Dehesa de la Encarnación" [= on the island of La Palma, in the Dehesa de la Encarnación].

murvanidzei CHERNOVSKII, 1949: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 122 (*Orthocladius*). Type-locality: **u Bakuriani v Gruzii** [= at Bakurian in Georgia].

naicus KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 199 (*Cricotopus*). Type-locality: Not given ‖ ►Type-locality: [Germany] "Wie lanceolatus" [= Like in *Cricotopus lanceolatus*], i.e. "im Bruthaus der Forellenzuchtanstalt Fürstenberg i. W." [= in the hatchery of the Fürstenberg in Westphalia trout rearing facility], in Thienemann, 1912: *Jahresbericht des*

Westfälischen Provincial-Vereins für Wissenschaft und Kunst **40**: 77◄ ‖.

nanulus WULP, 1875: *Tijdschrift voor Entomologie* **17**(5): 140 (*Orthocladius*). Type-locality: [Netherlands] "aan de nu drooggemaakte Schielandsche plassen" [= from the now dry lakes of Schieland]. [**Note**]

nigriforceps KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 87 (*Cricotopus*). Type-locality: [Germany] "Holstein, lacs" [= Holstein, lakes].

nigripectus BIGOT, 1888: *Mission scientifique du Cap Horn 1882-1883*, Tome VI. Zoologie. Pt. 2. Insectes: 2 (*Camptocladius*). Type-locality: [Introduction] [Chile] "environs de la baie Orange, dans le sud de la Terre de Feu" [= vicinity of Orange Bay, in the south of Tierra del Fuego]. [**Note**]

nigripes GIMMERTHAL, 1846: *Bulletin de la Société Impériale des Naturalistes de Moscou* **19**(2): 4 (*Chironomus*). Type-locality: [Latvia] "in de Nähe von Riga gefangen" [= found in the vicinity of Riga].

nigripes KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 187 (*Trichocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖► Type-locality: [Germany, Thüringia] "Fundort wie vorige" [= Locality as the previous (species)], i.e. "Gotha" in Thienemann, 1919: *Deutsche Entomologische Zeitschrift* **1919**(1/2): 135◄ ‖.

nigrita GOETGHEBUER, 1939: *Bulletin et Annales de la Société Entomologique de Belgique* **79**(4/5): 223 (*Smittia*). Type-locality: "Dans le bas-fond du Zwin à Knocke-sur-Mer (Belgique)" [= In the lowlands of Zwijn at Knocke-sur-Mer (Belgium)].

nigritulus GOETGHEBUER, 1940: *Bulletin et Annales de la Société Entomologique de Belgique* **80**(1): 58 (*Metriocnemus*). Type-locality: [Introduction, p. 55] "aux environs d'Abisko, en Laponie Suédoise" [= in the vicinity of Abisko, in Swedish Lapland]; [p. 59] "dans une forêt de bouleaux et aussi près d'une source" [= in a birch forest and also near a spring].

nigriventris WULP, 1859: *Tijdschrift voor Entomologie* **2**: 165 (*Chironomus*). Type- locality: [Netherlands] "Utrecht". Senior primary homonym of *Chironomus nigriventris* Wulp, 1861 (below). [**Note**]

nigriventris WULP, 1861: *Tijdschrift voor Entomologie* **4**: 16 (*Chironomus*). Type-locality: Not given ‖ ►Type-locality: [Netherlands] "Utrecht" in Wulp, 1859: *Tijdschrift voor Entomologie* **2**: 165◄‖. **Preoccupied**. Junior primary homonym of *Chironomus nigriventris* Wulp, 1859 (above).

nigrovittatus SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 209 (*Orthocladius* (*Paratrichocladius*)). Type-locality: {Canary Islands} "en la isla de la Palma" [= on the island of La Palma].

niphetobia KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 562 (*Metriocnemus*). Type-localities: [Germany] "Forêt-Noire : Todtmoos"; "Rüttebach" [Forêt-Noire = Black Forest].

nivicola KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 89 (*Trichocladius*). Type-locality: [Germany] "Forêt-Noire : Todtmoos, bords de la Wehra" [= Black Forest : Todtmoos, banks of the Wehra].

nivis KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 71 (*Dactylocladius*). Type-locality: [Germany] "Forêt-Noire, Todtmoos, bords de la Wehra" [= Black Forest, Todtmoos, banks of the Wehra]

nivium KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 67 (*Orthocladius*). Type-locality: [Germany, Schwartzwald] "Todtmoos : Herrenstopfwald".

nivosus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 68 (*Orthocladius*). Type-locality: [Germany, Schwartzwald] "Todtmoos : bords du torrent de la Wehra" [= Todtmoos : banks of the Wehra stream].

noctivagus KIEFFER, 1911: *Records of the Indian Museum* **6**(3): 175 (*Dactylocladius*). Type-locality: [Egypt] "Canal de Suez, à bord du vaisseau" [= Suez Canal, on bord a ship]. **[Note]**

novaesemliae KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 22 (*Camptocladius*; as "*novae-Semliae*"). Type-locality: [Russia] {Nouvelle-Zemble} "A l'embouchure du Riviere Chalhonik, Detroit Matotchkin" [= At the mouth of the River Chalhonik, Detroit Matotchkin].

nudipennis GOETGHEBUER, 1949: *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* **25**(14): 6 (*Trichocladius*). Type-locality: "Irelande: environs de Dublin" [= Ireland: vicinity of Dublin].

nudisquama CHERNOVSKII, 1949: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 142 (*Orthocladius*). Type-locality: [Russia] **naidena v Volge** [= found in the River Volga].

nympha KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 186 (*Trichocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖►Type-locality: [Germany, Westphalia] "Wie vorige" [= Like the previous (species)], i.e. "im Bruthaus der Fürstenberger Forellenzuchtanstalt am Fenster" [= in the hatchery of the Fürstenberg trout rearing facility on the window], in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 76◄‖.

obscuripennis HOLMGREN, 1869: *Kungliga Svenska VetenskapsAkademiens Handlingar* **8**(5): 42 (*Chironomus*). Type-locality: [Norway] "Hab. in Spetsbergia ad Smeerenberg" [= Dwells in Spitzbergen at Smeerenberg].

ochraceus WULP, 1859: *Tijdschrift voor Entomologie* **2**: 169 (*Chironomus*). Type-locality: [Netherlands] "Utrecht". [**Note**]

oeklandi KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 10 (*Metriocnemus*; as "*Oeklandi*"). Type-locality: [Russia] {Nouvelle-Zemble} "Le plus septentrionale de l'Iles Krestovii" [= The northernmost of the Krestovii Islands].

olivaceus CURE, 1971: *Buletinul de Cercetări Piscicole* **30**(3/4): 15 (*Trissocladius*; as "l. „*olivaceus*" " [l. = larva]). Type-locality: {România} "pe malul în rîului Olteț ,în zona de munte, cca 2 km amonte de intrea acestuia în defileu" [= on the banks of the River Olteț, in the mountains, about 2 kilometres upstream from its gorge]. [**Note**]

orientalis KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 128 (*Camptocladius*). Type-locality: [Turkey] "Asie-Mineure" [= Asia Minor].

orizae PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 157 (*Smittia*). Type-locality: [Tajikistan] **v risovykh . . . v aryke v Gissare** [= in rice . . . in an irrigation ditch in Gissare].

ottilianus KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 387 (*Trichocladius*). Type-locality: [Germany] "Bavière : Sankt-Ottilien" [= Bavaria : St. Ottilien].

ozhegovae AKHROROV, 1968: *Doklady Akademii Nauk Tadzhikskoi SSR* **10**(11): 69 (*Eukiefferiella*). Type-locality: [Tajikistan] {Pamir} "Oz. Yashil′-Kul′" [= Lake Yashil′-Kul]. [**Note**]

pallidipes KIEFFER, 1918: *Entomologische Mitteilungen* **7**: 99 (*Camptocladius*). Type-locality: [Lithuania] "Ignalino" [= Ignalina].

palmensis SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 235 (*Metriocnemus*; as "*Palmensis*"). Type-locality: {Canary Islands} "en la isla de la Palma, . . . en la Dehesa de la Encarnación" [= on the island of La Palma, . . . on the Dehesa de la Encarnación].

paluster KIEFFER, 1925: *Beiträge zur Kunde Estlands* **10**: 157 (*Camptocladius*). Type-localities: [Russia, Kaliningrad Region] "Ostpreußen: Zehlau-Moor: im Kiefernzwischenmoor . . . Hochfläche, am Kuhfließ" [= East Prussia: Zehlau-Moor: in moorland interspersed with Pine . . . plateau, on the Gwardeiskaja brook]; [Germany] "auf einem bayrischen Hochmoor, dem Königsdorfer Filz" [= from a Bavarian high moor, the Königsdorfer Filz]. [**Note**]

paluster KIEFFER, 1925: *Beiträge zur Kunde Estlands* **10**: 159 (*Orthocladius*). Type-locality: [Russia, Kaliningrad Region] "Ostpreußen: Zehlau-Moor, Kiefernzwischenmoor" [= East Prussia: Zehlau-Moor, moorland interspersed with Pine]. [**Note**]

parcepilosus KIEFFER, 1915: *Zoologische Jahrbücher, Abteilung Systematik, Ökologie und Geographie der Tiere* **39**: 115 (*Metriocnemus*). Type-locality: {Faroes} "Sandö . . . flache Wiesen am Seeausfluß" [= Sandö . . . flat meadows at the lake outflow].

pentasema KIEFFER, 1921: *Archiv für Hydrobiologie Supplement* **2**(4): 794 (*Camptocladius*). Type-locality: [Germany] "Eifel, an einer Quelle bei Daun" [= Eifel, in a spring at Daun].

perpusillus ENDERLEIN, 1912: *Kungliga svenska VetenskapsAkademiens Handlingar* **48**: 106 (*Orthocladius*). Type-locality: [Argentina] "Feuerland. Süsswassersee südwestlich von Uschuaia" [= Tierra del Fuego. freshwater lake south-west of Uschuaia].

peruvianus KIEFFER, 1917: *Annales Historico-Naturales Musei Nationalis Hungarici* **15**: 360 (*Dactylocladius*). Type-locality: "Pérou : Callanga" [Pérou = Peru].

petiolatus KIEFFER, 1917: *Annales Historico-Naturales Musei Nationalis Hungarici* **15**: 358 (*Camptocladius*). Type-locality: "Paraguay : Asuncion".

petraeus KIEFFER in KIEFFER & THIENEMANN, 1919: *Entomologische Mitteilungen* **8**: 117 (*Dactylocladius*). Type-locality: [Germany] "aus der Eifel" [= from the Eifel]. Senior primary homonym of *Dactylocladius* (*Chaetocladius*) *petraeus* Kieffer, 1921 (below). [**Note**]

petraeus KIEFFER, 1921: *Archiv für Hydrobiologie Supplement* **2**(4): 797 (*Dactylocladius* (*Chaetocladius*)). Type-locality: [Germany] "Eifel: Bröltal". **Preoccupied**. Junior primary homonym of *Dactylocladius petraeus* Kieffer, 1919 (above).

plasensis STROBL, 1898: *Glasnik Zemaljskog Muzeja Bosni u Hercegovini* **10**: 613 (*Chironomus*; as var. of *Chironomus minutus* Zetterstedt, 1850). Type-locality: [Bosnia and Herzegovina] **Plasi kod Jablanice** [= Plaša near Jablanica]. Senior primary homonym of *Chironomus plasensis* Strobl, 1900 (below). [**Note**]

plasensis STROBL, 1900: *Wissenschaftliche Mitteilungen aus Bosnien und Herzegovina* **7**: 665 (*Chironomus*; as var. of *Chironomus minutus* Zetterstedt, 1850). Type-locality: [Bosnia and Herzegovina] "Plaša bei Jablanica" [= Plaša near Jablanica]. **Preoccupied**. Junior primary homonym of *Chironomus plasensis* Strobl, 1898 (above). [**Note**]

ploenensis KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 93

(*Trichocladius*). Type-locality: [Germany] "Sleswig-Holstein, grand lac de Ploen" [= Schleswig-Holstein, Grosser Plöner See].

polychromus KIEFFER, 1906: *Annales de la Sociétés Scientifique de Bruxelles, 2e partie (Mémoires)* **30**: 328 (*Cricotopus*). Type-locality: [France] "Bitche".

polychromus KIEFFER, 1906: *Genera Insectorum* **42**: 24 (*Cricotopus*). Locality: Not given. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

porteri BRÈTHES, 1913: *Boletin del Museo Nacional de Chile* **4**(2): 219 (*Pseudhydrobaenus*; as "*Porteri*"). Type-localities: {Chili} "Valles de Azapa & Lluta (Prov. Tacna)" [= Valleys of Azapa & Lluta (Province of Tacna)] [Chili = Chile]. [**Note**]

praticola KIEFFER, 1915: *Zoologische Jahrbücher, Abteilung Systematik, Ökologie und Geographie der Tiere* **39**: 115 (*Metriocnemus*). Type-locality: {Faroes} "Sandö, Wiesenhang" [= Sandö, grassy slope].

proximus MEIGEN, 1830: *Systematische Beschreibung* **6**: 250 (*Chironomus*). Type-locality: [Title] "europäischen" [= European].

pseudohirticollis STROBL, 1880: *Dipterologische Funde um Seitenstetten*: 54 (*Chironomus*; as "*pseudo-hirticollis*"). Type-localities: [Austria] {Seitenstetten} "hinter dem Meierhofe" [= behind the farm buildings] ; "in der Fröschelau" [= in the Fröschelau]; "am Stiftsteiche" [= at the monastery pond].

pseudoictericus SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 213 (*Orthocladius* (*Paratrichocladius*)). Type-locality: {Canary Islands} "en la isla de la Palma" [= on the island of La Palma]. [**Note**]

pseudictericus: incorrect subsequent spelling.

publicus HUTTON, 1902: *Transactions and Proceedings of the New Zealand Institute* **34**: 184 (*Orthocladius*). Type-locality: {New Zealand} "Christchurch".

pulchellus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 85 (*Trichocladius*). Type-locality: [Germany] "Bavière : Saint-Ottilien" [= Bavaria : St. Ottilien].

pulchralis SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de*

Barcelona **14**(2): 198 (*Orthocladius* (*Orthocladius*)). Type-locality: {Canary Islands} "en la isla de la Palma" [= on the island of La Palma].

punctaticollis SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 186 (*Camptocladius*). Type-locality: {Canary Isles} "en Santa Cruz de la Palma".

punctatus KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 184 (*Camptocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖ ► Type-locality: [Germany, Westphalia] "in der Kleinbahn Haspe-Breckerfeld" [= in the narrow-gauge Haspe-Breckerfeld railway] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 76 ◄ ‖.

puripennis KIEFFER, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 37 (*Camptocladius*). Type-locality: [Title, p. 26] "Européens" [= European, i.e. Europe] ‖ ► Type-locality: [Poland] "Silésie" [= Silesia]; [Introduction, p. 11] "sur un haut plateau tourbeux, nommé Seefelder" [= on a highland moor, named Seefelder] in Kieffer, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 80 ◄ ‖. Senior primary homonym of *Camptocladius puripennis* Kieffer, 1924 (below). [**Note**]

puripennis KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 80 (*Camptocladius*). Type-locality: [Poland] "Silésie" [= Silesia]; [Introduction, p. 11] "sur un haut plateau tourbeux, nommé Seefelder" [= on a highland moor, named Seefelder]. **Preoccupied**. Junior primary homonym of *Camptocladius puripennis* Kieffer, 1922 (above).

pusio MEIGEN, 1830: *Systematische Beschreibung* **6**: 256 (*Chironomus*). Type-locality: [Title] "europäischen" [= European].

rectinervis KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 74 (*Camptocladius*). Type-locality: [Poland] "Silésie, . . . tourbière d'un Haut Plateau" [= Silesia, . . . on a higland moor]; [Introduction, p. 11] "sur un haut plateau tourbeux, nommé Seefelder" [= on a highland moor, named Seefelder].

rhacusensis STROBL, 1898: *Glasnik Zemaljskog Muzeja Bosni u Hercegovini* **10**: 614 (*Chironomus*). Type-locality: [Croatia] **Dubrovnik, među rogozom na Ričini** [= Dubrovnik, among reeds on the Ričina] [error, Ričina = Omla)]. Senior primary homonym of *Chironomus rhacusensis* Strobl, 1900. [**Note**]

rhacusensis STROBL, 1900: *Wissenschaftliche Mitteilungen aus Bosnien und Herzegovina* **7**: 665 (*Chironomus*). Type-locality: [Croatia] "Ragusa, zwischen Schilf an der Omla" [= Ragusa (now Dubrovnik), among reeds on the Omla]. **Preoccupied**. Junior primary homonym of *Chironomus rhacusensis* Strobl, 1898.

rivularis STORÅ, 1945: *Commentationes Biologicae* **8**(10): 27 (*Orthocladius* (*Orthocladius*)). Type-localities: {Azoren} [= Azores] "Mig.: Furnas" [Mig. = São Miguel]; "Lagoa do Congro"; "Pico da Vara"; "Flor.: Vales" [Flor. = Flores]; "Ribeira Borqueiros".

rivulorum AKHROROV, 1975: *Gidrobiologicheskii Zhurnal* **11**(2): 70 (*Pseudosmittia*). Type-locality: [Tajikistan] **sbrosnogo kanala v yugo-zapadnoi chasti Kairak-Kumskogo vodokhranilishcha** [= disused spillway at the southwestern part of Kara-Kum Reservoir].

rivulorum KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 386 (*Cricotopus*). Type-locality: [Germany] "Holstein : larve dans une source" [= Holstein : larve in a spring].

rostratus KIEFFER, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 27, 35 (*Camptocladius*). Type-locality: [Title, p. 26] "Européens" [= European, i.e. Europe]. [**Note**]

rupicola KIEFFER, 1919: *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord* **10**: 205 (*Dactylocladius*). Type-locality: "Algérie : Crête du Haïzer (Djurdjura)" [= Algeria : Haïzer ridge (Djurdjura)].

sahariensis KIEFFER, 1926: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **45**: 101 (*Trichocladius*). Type-locality: "Algérie : Biskra" [= Algeria : Biskra]. [**Note**]

saharensis: incorrect subsequent spelling.

scaturiginis GOETGHEBUER, 1940: *Bulletin et Annales de la Société Entomologique de Belgique* **80**(1): 62 (*Orthocladius*). Type-locality: [Introduction, p. 55] "aux environs d'Abisko, en Laponie Suédoise" [= in the vicinity of Abisko, in Swedish Lapland]; [p. 62] "près d'une source" [= near a spring].

schmoelzerella GOETGHEBUER, 1950: *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* **26**(47): 12 (*Smittia*; as "*Schmölzerella*"). Type-locality: [Austria] "Telstuf. Westteil. des Wolfendorn, 2300 m" [= Telstuf. western part of the Wolfendorn, 2300 metres].

schmölzerella: incorrect original spelling.

schmoelzeri GOETGHEBUER, 1950: *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* **26**(47): 11 (*Smittia*; as "*Schmölzeri*"). Type-locality: "Wolfendorn Nordseite, Katscherfang, 2300 m (Autriche)" [= Wolfendorn north side, Katscherfang, 2300 metres (Austria)].

schmölzeri: incorrect original spelling.

scriptus MEIGEN, 1838: *Systematische Beschreibung* **7**: 7 (*Chironomus*). Type-locality: [Germany] "Baiern" [= Bavaria].

sedula KONSTANTINOV, 1952: *Trudy Amurskoi Ikhtiologicheskoi Ekspeditsii 1945-1949 gg.* 3. *Materialy k Poznaniyu Fauny i Flory SSSR (N. S.)* **32**: 393 (*Smittia*). Type-locality: [Russia, Far East] {basseina Amur} [= basin of the Amur River] **beregam Bezymyannoi rechki, vpadayushchei v protok Sii bliz sel. Bolon'** [= shore of the Bezymyannoi River, running into the Sii channel near the village of Bolon'].

semiviridis KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 99 (*Camptocladius*; as "*Semiviridis*"; as var. of *tritomus* Kieffer, 1921). Type-locality: [Poland] "Silésie" [= Silesia].

septentrionalis CHERNOVSKII, 1949: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 151 (*Smittia*). Type-locality: [Russia, Northern European Territory] **naidena v zalive oz. Malyi Vud-yavr na

Kol′skom poluostrove** [= found in a bay on Lake Malyi Vud-yavr in the Kola Peninsula]. **[Note]**

septentrionalis KIEFFER, 1922: *Report of the Scientific Results of the Norwegian Expedition to Novaya Zemlya* **2**: 9 (*Metriocnemus*). Type-locality: [Russia] {Nouvelle-Zemble} "Rivage au sud de l'Ile Blaafjell" [= south shore of Blaafjell Island].

septris ROBACK, 1957: *Proceedings of the Academy of Natural Sciences of Philadelphia* **109**: 14 (*Trichocladius*). Type-locality: Type-locality: [U.S.A.] "Heber-Midway Bridge, Wasatch County, Utah".

setosinervis KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 181 (*Orthocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖ ►Type-locality: [Germany, Westphalia] "aus Bachmoosen der Logrötke" [= from brook mosses of the Logrötke] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 75◄ ‖.

setosipennis KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 183 (*Dactylocladius*). Type-locality: [Introduction] "Allemagne" [= Germany] ‖ ►Type-locality: [Germany, Westphalia] "Aus Bachmoosen der Logrötke" [= From brook mosses of the Logrötke" in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 75◄ ‖.

severini GOETGHEBUER, 1939: *Bulletin et Annales de la Société Entomologique de Belgique* **79**(4/5): 229 (*Trichocladius*; as "*Severini*"). Type-locality: "à Postel (Belgique)" [= at Postel (Belgium)].

shadini PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 156 (*Smittia*). Type-localities: [Tajikistan] **na vodorazdele Mazor — Saradzhou . . . kurorta Khodzha-obi-garm** [= on the Mazor — Saradzhou watershed . . . Khodzha-Obi-Garm Spa]; **v doline r. Saradzhou** [= in the valley of the River Saradzhou].

silesiacus KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 85 (*Metriocnemus*). Type-locality: [Poland] "Silésie" [= Silesia].

sinuosus KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 200

(*Metriocnemus*). Type-locality: Not given ‖►Type-locality: [Germany, Westphalia] "Ruhr unterhalb Arnsberg" [= the Ruhr below Arnsberg] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 77◄‖.

sociatus SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 236 (*Metriocnemus*). Type-locality: {Canary Islands} "en la isla de la Palma, en la Dehesa de la Encarnación" [= on the island of La Palma, on the Dehesa de la Encarnación].

sordens JOHANNSEN, 1905: *Bulletin of the New York State Museum* **86**: 272 (*Orthocladius*). Type-locality: [U.S.A.] "Ithaca N. Y." [N. Y. = New York].

sphagnophilus KIEFFER, 1925: *Beiträge zur Kunde Estlands* **10**: 158 (*Camptocladius*). Type-localities: "Estland: Alatu-Moor auf Dagö" [= Estonia: Alatu Moor on Dagö]; "Jööpre-Moor bei Pernau" [= Jööpre Moor near Pärnu]. **[Note]**

sphagnorum KIEFFER, 1925: *Beiträge zur Kunde Estlands* **10**: 161 (*Trichocladius*). Type-localities: "Estland: Mävli-Moor auf Dagö" [= Estonia: Mävli Moor on Dagö]. **[Note]**

squamosus KIEFFER, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 33, 35 (*Camptocladius*). Type-locality: [Title, p. 26] "Européens" [= European, i.e. Europe] ‖►Type-locality: "Suède, . . . larve dans une source" [= Sweden, . . . larva in a spring] in Kieffer, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 78◄‖. Senior primary homonym of *Camptocladius squamosus* Kieffer, 1924 (below). **[Note]**

squamosus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 78 (*Camptocladius*). Type-locality: "Suède, . . . larve dans une source" [= Sweden, . . . larva in a spring]. **Preoccupied**. Junior primary homonym of *Camptocladius squamosus* Kieffer, 1922 (above).

stadleri KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 559 (*Trichocladius*; as "*Stadleri*"). Type-locality: [Germany] "Bavière : Gossenheim, fontaine" [= Bavaria : Gossenheim, fountain].

stagnalis GOETGHEBUER, 1933: *Bulletin et Annales de la Société Entomologique de Belgique* **72**(11/12): 290 (*Eukiefferiella*). Type-locality: Not given ‖►Type-locality: "Belgia" [= Belgium] in Goetghebuer in Goetghebuer & Lenz, 1944: *Die Fliegen der Palaearktischen Region* **13g**: 120◄‖. [**Note**]

stenopelma KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 148 (*Cricotopus*). Type-locality: [Germany] "Westphalie : larves dans *Fontinalis*, Diemel" [= Westphalia : larvae in *Fontinalis*, Diemel] ‖►Type-locality: [Germany, Westphalia] "In *Fontinalis* der Diemel bei Nieder-Marsberg" [= In *Fontinalis* of the Diemel at Nieder-Marsberg] in Thienemann, 1919: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst (Zoologische Sektion)* **47**: 26◄‖.

stenopelma THIENEMANN, 1919: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst (Zoologische Sektion)* **47**: 26 (*Cricotopus*; as var. of *limnanthemi* Kieffer, 1910). Locality: [Germany, Westphalia] "In *Fontinalis* der Diemel bei Nieder-Marsberg" [= In *Fontinalis* of the Diemel at Nieder-Marsberg]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

stiliger KIEFFER & THIENEMANN in THIENEMANN, 1921: *Archiv für Hydrobiologie Supplement* **2**(4): 846 (*Phaenocladius*). Type-locality: [Germany] "in einem Garten in Hamburg" [= in a garden in Hamburg]. [**Note**]

strandi LUNDSTRÖM, 1914: *Nytt Magasin for Naturvidenskapene* **51**(4): 317 (*Orthocladius* (*Trichocladius*); as "*Strandi*"). Type-locality: "Norvegia, Hvalöerne" [= Norway, Hvalöerne]. [**Note**]

strenzkei GOWIN, 1943: *Archiv für Hydrobiologie* **40**(1): 114 (*Eutrichocladius*). Type-locality: [Austria] "Maiergraben (II), bei Lunz (Nieder-Donau)" [= Maiergraben (II), at Lunz (Lower Danube)].

subalpina GOETGHEBUER, 1934: *Bulletin et Annales de la Société Entomologique de Belgique* **74**(3): 92 (*Eukiefferiella*). Type-locality: [Germany] [Title, p. 87]

"Environs de Garmisch-Partenkirchen (Haute-Bavière)" [= Vicinity of Garmisch-Partenkirchen (Upper Bavaria); [p. 93] "à une altitude de 1000 m." [= at an altitude of 1000 metres]

subdedectus GOETGHEBUER, 1933: *Bulletin et Annales de la Société Entomologique de Belgique* **73**(11): 359 (*Metriocnemus*). Type-locality: [Russia] "Environs de Leningrad" [= Vicinity of Leningrad (now Saint Petersburg].

subglaber KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 94 (*Trichocladius*). Type-locality: [Poland] "Silésie" [= Silesia].

sublaminatus KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 126 (*Camptocladius*). Type-locality: [India, Maharashtra] "Indes-Orientales: Matheran, à une hauteur de 800 m." [= East Indies: Matheran, at a height of 800 metres].

subrecta GOETGHEBUER, 1942: *Archiv für Hydrobiologie* **38**: 663 (*Smittia*). Type-locality: [Footnote, p. 664] [Austria] "aus dem Lunzer Seengebiet (Niederdonau) . . . aus *Schizothrix*-Krusten des Lunzer Untersees" [= from the Lunz lake region (Lower Danube) . . . from *Schizothrix* encrustations of the 'Lower Lake' at Lunz].

succineus GOETGHEBUER, 1942: *Archiv für Hydrobiologie* **38**: 664 (*Orthocladius*). Type-locality: [Footnote, p. 664] [Germany] "aus dem Großen Plöner See" [= from the Grosser Plöner See].

sylvicola GOETGHEBUER, 1939: *Bulletin et Annales de la Société Entomologique de Belgique* **79**(4/5): 225 (*Limnophyes*; as "*Lymnophyes*"). Type-locality: "à Schelderode" (Belgique) [= at Schelderode (Belgium)].

tangens KIEFFER, 1911: *Bulletin de la Société Entomologique de France* **1911**: 200 (*Metriocnemus*). Type-locality: Not given ‖►Type-locality: [Germany, Westphalia] "in der Kleinbahn Haspe-Breckerfeld" [= in the narrow-gauge Haspe-Breckerfeld railway] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 77◄‖.

teletzkensis LIPINA, 1949: *Trudy Zoologicheskogo Instituta, Leningrad* **7**: 202

(*Orthocladius*). Type-localities: [Russia, West Siberia] **V Teletskom ozere** [= In Lake Teletsk]; ** u Chulyshmana** [= at Chulyshmana]; **v r..Kamge** [= in the River Kamge]; **v rch. Egach i Korby** [= in the brooks Egach and Korby]. [**Note**]

teletskensis: incorrect subsequent spelling.

tenuiventris KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 89 (*Trichocladius*; as var. of *nivicola* Kieffer, 1924). Type-locality: [Germany, Schwartzwald] "Todtmoos, bords du Rüttebach" [= Todtmoos, banks Rüttebach].

terricola KIEFFER, 1919: *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord* **10**: 204 (*Trichocladius*). Type-locality: "Algéris : Crête du Haïzer (Djurdjura)" [Algéris = Algeria].

tetrachaetus KIEFFER, 1915: *Brotéria, Série Zoológica* **13**: 84 (*Orthocladius*). Type-locality: "Deutschland" [= Germany] ‖►Type-locality: [Germany] "Diemel bei Messinghausen" [= Diemel at Messinghausen] in Thienemann, 1919: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst (Zoologische Sektion)* **47**: 26◄‖.

tetrasema KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 97 (*Camptocladius*). Type-locality: [France] "Deux-Sèvres" ‖►Type-locality: [France] [p. 26] "aux environs de Niort" [= in the vicinity of Niort] in Kieffer, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 26◄‖. Senior primary homonym of *Camptocladius tetrasema* Kieffer, 1922 (below).

tetrasema KIEFFER, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 33 (*Camptocladius*). Type-locality: [France] [p. 26] "aux environs de Niort" [= in the vicinity of Niort]. **Preoccupied**. Junior primary homonym of *Camptocladius tetrasema* Kieffer, 1921 (above). [**Note**]

thalassobius KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 229 (*Camptocladius*). Type-locality: [p. 227] [Germany]

"voltigeant sur les bords de la mer Baltique, dans la baie de Hohwacht, au Holstein" " [= flying on the shore of the Baltic Sea, in Hohwacht Bay, in Holstein].

timoni GOETGHEBUER & TIMON-DAVID, 1939: *Bulletin et Annales de la Société Entomologique de Belgique* **79**(1/2): 69 (*Orthocladius*; as "*Timoni*"). Type-locality: [France] {iles du Golfe de Marseille} [= islands in the Gulf of Marseille] [p. 65-66] "POMÈGUES-RATTONEAU". [**Note**]

tolleti GOETGHEBUER, 1944: *Biologisch Jaarboek* **11**: 39 (*Orthocladius*; as "*Tolleti*"). Type-locality: "Onoz (Belgique)" [= Onoz (Belgium)].

transcaucasicus CHERNOVSKII, 1949: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 146 (*Limnophyes*). Type-locality: Not given ‖ ► Type-locality: "Armenia r. Zanga u g. Erevan" [= Armenia, River Zanga near city of Yerevan] ◄ ‖. [**Note**]

trifoliataus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 73 (*Camptocladius*). Type-locality: [Poland] "Silésie : tourbière d'un Haut Plateau" [= Silesia, . . . on a higland moor]; [Introduction, p. 11] "sur un haut plateau tourbeux, nommé Seefelder" [= on a highland moor, named Seefelder]. [**Note**]

trifurcatus GOETGHEBUER in GOETGHEBUER & LENZ, 1943: *Die Fliegen der Palaearktischen Region* **13g**: 70 (*Orthocladius* (*Eudactylocladius*)). Type-locality: "Belgia" [= Belgium].

triseta KIEFFER, 1925: *Beiträge zur Kunde Estlands* **10**: 157 (*Camptocladius*). Type-locality: "Estland: Jööpre-Moor bei Pernau" [= Estonia: Jööpre Moor near Pärnu]. [**Note**]

tritomus KIEFFER, 1921: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **29**: 99 (*Camptocladius*). Type-locality: [Poland] "Silésie" [= Silesia]. [**Note**]

tschernovskyi KONSTANTINOV, 1952: *Trudy Amurskoi Ikhtiologicheskoi Ekspeditsii 1945-1949 gg.* 3. *Materialy k Poznaniyu Fauny i Flory SSSR (N. S.)* **32**: 394 (*Smittia*). Type-locality: [Russia, Far East] {basseina Amur} [= basin of the Amur River] **naideny v Bezymyannoi rechki, vpadayushchei s severa v protok Sii bliz sel.

Bolon′** [= found in the Bezymyannoi River, running from the north into the Sii channel near the village of Bolon′].

tshernovskii: incorrect subsequent spelling.

tshernovskii ZVEREVA, 1950: *Entomologicheskoe Obozrenie* **31**(1-2): 280 (*Smittia*). Type-locality: [Russia, Northern European Territory] **Vychegda . . . vodoemy poimy u s. Slobody** [= River Vychegda . . . water bodies in the flood plain near the village of Sloboda].

tunisiae KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 84 (*Trichocladius*; as "*Tunisiae*"). Type-localities: "Tunisie: Djebel Afrana"; "Djebel Djeloud"; "Tunis" [Tunisie = Tunisia].

turficola KIEFFER, 1929: *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg* **66**: 303 (*Camptocladius*). Type-locality: [Russia, Kaliningrad Region] "Hochfläche der Zehlau" [= plateau of Zehlau].

tyrolensis KIEFFER, 1925: *Annales de la Société Scientifique de Bruxelles, 1re partie (Comptes Rendus)* **44**: 384 (*Metriocnemus*). Type-locality: [Austria] "Tyrol".

umbraticus SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 199 (*Orthocladius* (*Orthocladius*)). Type-locality: {Canary Islands} "en la isla de la Palma, en el Barranco del Río" [= on the island of La Palma, in the Barranco del Río].

unica JOHANNSEN, 1932: *Archiv für Hydrobiologie Supplement* **9**: 725 (*Spaniotoma* (*Trichocladius*)). Type-locality: [Indonesia] "near a waterfall at Sarangan, Middle Java".

unicolor PHILIPPI, 1866: *Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien (Abhandlungen)* **15**(4): 629 (*Spaniotoma*). Type-locality: {Chile} "Cum priore inveni" [= found with the first species, i.e. *Spaniotoma bivittata* Philippi, "prope Santiago"] [= near Santiago]. **[Note]**

ursinus KIEFFER in KIEFFER & THIENEMANN, 1919: *Entomologische Mitteilungen* **8**: 117 (*Dactylocladius*; as var. of *petraeus* Kieffer, 1919). Type-locality: [Norway] "Bäreninsel: Süßwassertümpel, oberhalb der Walfischbucht" [= Bear

Island: freshwater pool, above Walrus Bay]. Senior secondary homonym of *Limnophyes ursinus* Andersen, 1937 (below).

ursinus ANDERSEN, 1937: *Meddelelser om Grønland* **116**(1): 70 (*Limnophyes*; as nom. nov. for "*Dactylocladius petraeus* Kieff. *var. ursinus* Kieff. 1919"). **Preoccupied**. Junior secondary homonym of *Dactylocladius ursinus* Kieffer, 1919 (above). [**Note**]

vanoyei GOETGHEBUER, 1944: *Biologisch Jaarboek* **11**: 164 (*Orthocladius*; as "*van Oyei*"). Type-locality: "Thingvellir, . . . dans l'hôtel Valhöll (Islande)" [= Thingvellir, . . . in the Hotel Valhöll (Iceland)].

vernus MEIGEN, 1818: *Systematische Beschreibung* **1**: 49 (*Chironomus*). Type-locality: [Title] "europäischen" [= European].

verticillatus KIEFFER, 1922: *Mémoires de la Société de Vulgarisation des Sciences Naturelles des Deux-Sèvres* **4**: 32 (*Camptocladius*). Type-locality: [Title, p. 26] "Européens" [= European, i.e. Europe] ‖►Type-locality: Germany] "Westphalie : larve dans une mousse du genre *Fontinalis* dans la Diemel" [= Westphalia : larva in a moss of the genus *Fontinalis* in the Diemel] in Kieffer, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 149◄‖. Senior primary homonym of *Camptocladius verticillatus* Kieffer, 1923 (below). [**Note**]

verticillatus KIEFFER, 1923: *Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires)* **42**: 149 (*Camptocladius*). Type-locality: Germany] "Westphalie : larve dans une mousse du genre *Fontinalis* dans la Diemel" [= Westphalia : larva in a moss of the genus *Fontinalis* in the Diemel]. **Preoccupied**. Junior primary homonym of *Camptocladius verticillatus* Kieffer, 1922 (above).

verticillatus KIEFFER, 1924: *Bulletin de la Société d'Histoire Naturelle de la Moselle* **30**: 100 (*Metriocnemus*). Type-locality: [Germany] "Holstein, larve dans un ruisseau" [= Holstein, larva in a stream].

viator KIEFFER in THIENEMANN & KIEFFER, 1916: *Archiv für Hydrobiologie Supplement* **2**(3): 510 (*Trichocladius*). Type-locality: {Sweden} "Im zug

Hälsingborg-Wärnamo" [= In the Hälsingborg-Wärnamo train].

vicinus SANTOS-ABREU, 1918: *Memorias de la Real Academia de Ciencias y Artes de Barcelona* **14**(2): 200 (*Orthocladius* (*Orthocladius*)). Type-locality: {Canary Islands} "en la isla de la Palma, . . . en el Barranco del Río" [= on the island of La Palma, . . . in the Barranco del Río].

vilis KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 131 (*Camptocladius*). Type-locality: [Turkey] "Asie-Mineure: Agaboz" [= Asia minor: Agaboz].

villosipes KIEFFER, 1918: *Annales Historico-Naturales Musei Nationalis Hungarici* **16**: 129 (*Camptocladius*). Type-locality: [Turkey] "Asie-Mineure: Angora" [= Asia minor: Ankara].

viridiventris KIEFFER, 1912: *Bulletin de la Société Entomologique de France* **1912**: 86 (*Metriocnemus*). Type-locality: "Allemagne" [= Germany] ‖ ►Type-locality: [Germany] "Im Bachmoose im Thüringen Wald" [= In brook moss in the Thüringian woods]; "Apfelstädt bei Tambach" [= Apfelstadt at Tambach] in Thienemann, 1912: *Jahresbericht des Westfälischen Provincial-Vereins für Wissenschaft und Kunst* **40**: 78◄ ‖.

virtunensis GOETGHEBUER, 1932: *Faune de France* **23**: 92 (*Orthocladius* (*Dactylocladius*)). Type-locality: "Belgique : Gand" [= Belgium : Gand].

Unavailable names in ORTHOCLADIINAE

LJUNGNERIA BRUNDIN, 1964: *Pacific Basin Biogeography*: 430. Type-species: Not given. Name not made available - not accompanied by the fixation of a type-species contrary to Article 13.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**. **[Note]**

TOGAYUSURIKA SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120. Type-species: *Togayusurika togatebea* Sasa & Okazawa, 1991, by original designation. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code

(ICZN, 1999, 4th Edition). **Nomen nudum**.

acuticauda CHERNOVSKII, 1949: *Opredeliteli po Faune SSSR, izdavaemye Zoologicheskim Institutom AN SSSR* **31**: 94-95 (as "Orthocladiinae gen.? l. *acuticauda* (Pagast)"). Locality: Not given [Russia, Tver′ Province, Central European Territory] **r. Mologa vyshe v Reni** [= River Mologa upstream of the inflow of the River Renya (now drowned in the Rybinsk Reservoir)] ‖►Localities: [Latvia] "in der Krievupe bei Rodenpois (Rapaži) . . . (Livland)" [= in the Krievupe at Rodenpois (Ropaži) . . . (Livonia)]; [Russia, Pskov Province] "in einem Nebenfluß der Pimsha (mündet ins Südende des Peipussees) beim orthodoxen Kloster Petschory in Südost-Estland)" [= in a tributary of the Pimsha River (flows into the southern end of Lake Pskovskoe) at the orthodox monastery Pechory in south-eastern Estonia (locality now in Russia)], in Pagast, 1936: *Stettiner Entomologische Zeitung* **97**(2): 278◄‖. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. [**Note**]

altyncolicola LIPINA, 1949: *Trudy Zoologicheskogo Instituta, Leningrad* **7**: 200 (as "Genus? «Larva *altyncolicola*»"). Locality: [Russia, West Siberia] **V r. Chulyush** [= In the River Chulyush]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. [**Note**]

ambigua PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 141 (as "Orthocladiinae g.? 1."). Type-localities: [Tajikistan] **v ushchel′e Zamindoroz** [= in Zamindoroz Gorge]; **v ruch′e za Botanicheskim sadom** [= in a stream behind the Botanic Garden]; **v r. Varzob** [= in the River Varzob]; **doliny r. Lyuchob** [= valley of the River Lyuchob]; **v luzhe v Gissare** [= in pools at Gissare]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

astilus LINEVICH in LINEVICH, MAKARCHENKO & ALEKSANDROV, 2002: *Khironomidy Baikala i Pribaikal'ya*: 108 (as "Orthocladiinae g.?"). Locality: {Russia, East Siberia } **zapadnoe poberezh'e Baikala u ust'ya r. Chernoi** [= west coast of Lake Baikal, Zhilishche stream at the mouth of the River Chernoi]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

attrita PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 160 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **v ushchel'e Kondara** [= in Kondar Gorge]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**. [**Note**]

calliginosa PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 151 (as "Orthocladiinae g.? 1."). Type-localities: [Tajikistan] **v r. Kondare** [= in the River Kondar]; **v r. Varzob u Kondary** [= in the River Varzob at Kondar]; **r. Kafirnigan u Yangi-bazara** [= River Kafirnigan at Yangi-Bazara; now = River Kofarnihon at Vahdat]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

carbonaria PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 149 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **na ploskogor'e Ruidasht** [= on the Ruidasht Plateau]; **na gore doliny Saradzhou** [= in the mountain valley of Saradzhou]; **v ushchel'e Zamindoroz** [= in Zamindoroz Gorge]; **v Mazor-dar'e** [= in the Mazor-Darya River]; **kurorta Khodzha-obi-garm** [= Khodzha-Obi-Garm Spa]; **v Goluboi rechke 4 km vyshe poselka Ziddy** [= in the Goluboi River 4 kilometres above the village of Ziddy]; **v Ziddinke vyshe poselka Ziddy** [= in the Ziddinke River above the village of Ziddy]; **v Kondare** [= in Kondar]; **v Varzobe** [= in Varzob]; **v r. Varzob** [= in the River Varzob]; **v r. Lyuchob** [= in the River Lyuchob];

v r. Kafirnigan [= in the River Kafirnigan; now = River Kofarnihon]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

clara PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 145 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **v r. Kondare** [= in the River Kondar]; **v rucheike za Botanicheskim sadom** [= in a streamlet behind the Botanic Garden]; **v r. Varzob** [= in the River Varzob]; **v r. Lyuchob** [= in the River Lyuchob]; **v r. Kafirnigan . . . u Yangi-bazara** [= in the River Kafirnigan . . . at Yangi-Bazara, now = in the River Kofarnihon . . . at Vahdat]; **v r. Khanakinke v Gissare** [= in the River Khanakinke at Gissare]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

comprimata PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 143 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **Naidena . . . vmeste s lichinkoi Orthocladiinae g.? 1. *ventrisetosa*** [= Found . . . together with the larva of Orthocladiinae g.? 1. *ventrisetosa*; i.e. **v rodnike vyshe kurorta Khodzha-obi-garm** [= in springs above Khodzha-Obi-Garm Spa]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**. **[Note]**

condarensis PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 153 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **v r. Kondare** [= in the River Kondar]; **vyshe kurorta Khodzha-obi-garm** [= above Khodzha-Obi-Garm Spa]; **v r. Varzob** [= in the River Varzob]; **v r. Khanakinke v Gissare** [= in the River Khanakinke at Gissare]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

curvata PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 144 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **v ushchel'e Khodzha-obi-garm v ruch'yakh na vodorazdele Mazor — Saradzhou** [= in Khodzha-Obi-Garm Gorge in streams on the Mazor — Saradzhou watershed]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

dissimulata PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 161 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **v r. Saradzhou** [= in the River Saradzhou]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

dixidoides PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 160 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **v doline r. Saradzhou** [= in the valley of the River Saradzhou]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**. [**Note**]

dixioides: incorrect subsequent spelling.

dubia PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 139 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **v r. Kondare** [= in the River Kondar]; **v doline r. Varzob** [= in the valley of the River Varzob]; **doline r. Lyuchob** [= valley of the River Lyuchob]; **r. Kafirnigan y Yangi-bazara** [= River Kafirnigan at Yangi-Bazara; now = River Kofarnihon at Vahdat]; **v r. Khanakinke** [= in the River Khanakinke]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

fontana PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 152 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **ushchel'e Kondara** [=

Kondar Gorge]; **na ploskogor'e Ruidasht . . . v r. Lyuchob** [= on the Ruidasht Plateau . . . in the River Lyuchob]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

fracta PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 153 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **v r. Varzob** [= in the River Varzob]; **kanalizatsionnykh g. Stalinabada** [= sewage water of Stalinabad City; now Stalinabad = Dushanbe]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

hepaticus PANKRATOVA, 1972: *Trudy Zoologicheskogo Instituta, Leningrad* **51**: 158 (as "Orthocladiinae gen.(?) *hepaticus*"). Locality: [Uzbekistan] {Uzbekskoi SSR} **Lichinki zhili vmeste s Orthocladiinae gen.(?) *reductus* sp. n.** [= Larvae living together with Orthocladiinae gen.(?) *reductus* sp. n.], [p. 157, *reductus*] **v obrastaniyakh mkha na perekate rodnikovoi r. Agalyk** [= in moss fouling in a riffle of the spring-feeding River Agalyk] (2 km upstream of the village of Agalyk)]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. [**Note**]

hyalina PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 147 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **v r. Lyuchob** [= in the River Lyuchob]; **v Gissare** [= in Gissare]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

incurva PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 154 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **v r. Varzob u Pugusa** [= in the River Varzob at Pugusa]; **v r. Kondare** [= in the River Kondar]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition).

Nomen nudum.

indefinita PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 162 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **v Mazor-dar'e nizhe kurorta Khodzha-obi-garm** [= in the Mazor-Darya River below Khodzha-Obi-Garm Spa]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

insolita PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 147 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **v r. Lyuchob** [= in the River Lyuchob]; **v Gissare** [= in Gissare]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

intermedia BOTNARIUC & CÎNDEA-CURE, 1954: *Buletin Ştiinţific Academia Republicii Populare Române* **6**(4): 1239 (as "Orthocladiinae gen? l."). Locality: {Roumaine} "în bazinul de decantare a fabricii de zahăr de la Chitila" [= in the settling pond of the sugar factory of Chitila] [Roumaine = Romania]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**.

intermedius LINEVICH in LINEVICH, MAKARCHENKO & ALEKSANDROV, 2002: *Khironomidy Baikala i Pribaikal'ya*: 108 (as "Orthocladiinae g.?"). Locality: {Russia, East Siberia} **bereg oz. Baikal v doline r. Bol. Koty** [= shore of Lake Baikal in the valley of the River Bol'shie Koty]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

jantschilicola LIPINA, 1949: *Trudy Zoologicheskogo Instituta, Leningrad* **7**: 202 (as "Genus? «Larva *jantschilicola*»"). Locality: [Russia, West Siberia] **v rch. Yan-Chili** [= in the Yan-Chili brook]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the

Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. [**Note**]

korbuicola LIPINA, 1949: *Trudy Zoologicheskogo Instituta, Leningrad* **7**: 201 (as "Genus? «Larva *korbuicola*»"). Localities: [Russia, West Siberia] **v rr. Bii i Korby** [= in the Rivers Bii and Korby]; **v ruch'yakh Ayu-kechpes i Ilandy** [in the brooks Ayu-kechpes and Ilandy]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. [**Note**]

lancetosa PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 158 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **v ushchel'e Zamindoroz** [= in Zamindoroz Gorge]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

lichkovae PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 163 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] [Introduction, p. 116] **bassein Amu-dar'i . . . Tadzhikistane** [= basin of the Amu-Darya . . . Tajikistan]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

luteola PANKRATOVA, 1959: *Trudy Zoologicheskogo Instituta, Leningrad* **26**: 370 (as "Orthocladiinae g.? 1."). Locality: [Russia, Southern European Territory] [Title, p. 365] **Krasnodarskogo kraya** [= Krasnodar Krai]; [p. 371] **r. Psekups** [= River Psekups]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

microcladioides LIPINA, 1949: *Trudy Zoologicheskogo Instituta, Leningrad* **7**: 200 (as "Genus? «Larva *microcladioides*»"). Locality: [Russia, West Siberia] **oz. Teletskoe** [= Teletsk Lake]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. [**Note**]

minima CURE, 1971: *Buletinul de Cercetări Piscicole* **30**(3/4): 17 (as "Orthocladiinae g.? 1."). Localities: {România} "în bazinul rîurilor : Moldova . . . Someş . . . Argeş . . . Olt . . . Ialomița . . . Cerna . . . Cozla şi Berzasca . . . Jiu" [= in river basins : Moldova . . . Someş . . . Argeş . . . Olt . . . Ialomița . . . Cerna . . . Cozla and Berzasca . . . Jiu]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. [**Note**]

molesta PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 148 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **v Bazovskom ozere v doline r. Vakhsh** [= in Bazovsk Lake in the valley of the River Vakhsh]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

nalae PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 147 (as "Orthocladiinae g.? 1."). Localities: [Uzbekistan] **v del'te Amu-dar'i — v Sudoch'em ozere . . . i v ozere Kara-teren' u mysa Urga** [= in the delta of the Amu-Darya River — in Sudoch'em Lake and in Kara-teren' Lake at Cape Urga]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

nana PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 142 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **v Mazor-dar'e vyshe kurorta Khodzha-obi-garm** [= in the Mazor-Darya River above Khodzha-Obi-Garm Spa]; **v r. Kolond'yu u kurorta Khodzha-obi-garm** [= in the River Kolond'yu at Khodzha-Obi-Garm Spa]; **v r. Kondare** [= in the River Kondar]; **v r. Varzob** [= in the River Varzob]; **r. Kafirnigan** [= River Kafirnigan; now = River Kofarnihon]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

ninae PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 146 (as "Orthocladiinae g.? 1."). Locality: [Uzbekistan] **ozere Kok-su v del'te Amu-dar'i ** [= Kok-su Lake in the delta of the Amu-Darya River]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

obicola LIPINA, 1949: *Trudy Zoologicheskogo Instituta, Leningrad* **7**: 196 (as "Genus? «Larva *obicola*»"). Localities: [Russia, West Siberia] **v Aziatskoi chasti SSSR, v ozerakh Sartlane i Ubinskom** [= in the Asiatic part of the USSR, in Lakes Sartlane i Ubinskom]; **V Teletskom ozero** [= In Teletsk Lake]; **v r. Kamge** [= in the River Kamge]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. [**Note**]

obscura PANKRATOVA, 1959: *Trudy Zoologicheskogo Instituta, Leningrad* **26**: 365 (as "Orthocladiinae g.? 1."). Locality: [Russia, Southern European Territory] [Title, p. 365] **Krasnodarskogo kraya** [= Krasnodar Krai]; [p. 368] **r. Psekups** [= River Psekups]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

paradoxus LINEVICH in LINEVICH, MAKARCHENKO & ALEKSANDROV, 2002: *Khironomidy Baikala i Pribaikal'ya*: 110 (as "Orthocladiinae g.?"). Locality: {Russia, East Siberia} **zapadnoe poberezh'e Baikala, dolina v r. Bol. Koty** [= west coast of Lake Baikal, in the valley of the River Bol'shie Koty]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

pargus PANKRATOVA, 1959: *Trudy Zoologicheskogo Instituta, Leningrad* **26**: 369 (as "Orthocladiinae g.? 1."). Locality: [Russia, Southern European Territory] [Title, p. 365] **Krasnodarskogo kraya** [= Krasnodar Krai]; [p. 370] **r. Psekups, u

st. Klyuchevoi** [= River Psekups, by the Klyuchevo stream]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

principata PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 140 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **na ploskogor'e Ruidasht . . . ushchel'ya Khodzha-obi-garm ** [= on the Ruidasht Plateau . . . Khodzha-Obi-Garm Gorge]; **bliz Gushary** [= near Gushary]; **v ushchel'e Gazhni** [= in Gazhni Gorge]; **v ushchel'e Kondara** [= in Kondar Gorge]; **v Mazor-dar'e nizhe kurorta Khodzha-obi-garm** [= in the Mazor-Darya River below Khodzha-Obi-Garm Spa]; **v Goluboi rechke vyshe Ziddy** [= in the Goluboi River above Ziddy]; **v Kondare** [= in Kondar]; **v r. Varzob** [= in the River Varzob]; **nizhe g. Varzob** [= below Varzob City]; **v r. Varzob u Botanicheskogo sada** [= in the River Varzob at the Botanical Garden]; **v r. Lyuchob** [= in the River Lyuchob]; **v r. Khanakinke** [= in the River Khanakinke]; **v r. Kafirnigan** [= in the River Kafirnigan; now = River Kofarnihon]; **Gissara** [= Gissare]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition) (Orthocladiinae g. ?1.). **Nomen nudum**.

proxima PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 141 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **na ploskogor'e Ruidasht . . . v r. Lyuchob** [= on the Ruidasht Plateau . . . in the River Lyuchob]; **r. Kafirnigan v Gissare** [= River Kafirnigan at Gissare; now River Kafirnigan = River Kofarnihon]; **u Yangi-bazara** [= at Yangi-Bazara; now = Vahdat]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition) (Orthocladiinae g.?1.). **Nomen nudum**.

pseudolancetosa PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1):

159 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **v rodnike ushchel'e Zamindoroz** [= in springs in Zamindoroz Gorge]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

quadriarticulata PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 159 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **beregy r. Kondare** [= shore of the River Kondar]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

reductus PANKRATOVA, 1972: *Trudy Zoologicheskogo Instituta, Leningrad* **51**: 157 (as "Orthocladiinae gen.(?) *reductus*"). Locality: [Uzbekistan] {Uzbekskoi SSR} **v obrastaniyakh mkha na perekate rodnikovoi r. Agalyk** [= in moss fouling in a riffle of the spring-feeding River Agalyk (2 km upstream of the village of Agalyk)]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. **[Note]**

schoschcae MARTYNOVA, 1969: *Gidrobiologicheskii Zhurnal* **5**(6): 93 (as "Orthocladiinae g. ? l."). Type-locality: [Russia, Central European Territory] **Shoshke i Kiyale-Burte . . . v pravom pritoke Urala — Sakmare . . . v pritokakh Sakmary — Blyave i Kuraganke** [= Shoshke and Kiyale-Burte . . . in the right tributary Urala — Sakmare . . . in the tributary Sakmare — Blyave and Kuraganke]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. **[Note]**

schoschae: incorrect subsequent spelling.

setosus LINEVICH, 1961: *Entomologicheskoe Obozrenie* **40**(3): 503 (*Orthocladius*). Type-locality: [Russia, East Siberia] **Baikal** [= Baikal region]. Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

sibiricola LIPINA, 1949: *Trudy Zoologicheskogo Instituta, Leningrad* **7**: 200 (as "Genus? «Larva *sibiricola*»"). Locality: [Russia, West Siberia] **v r. Yan-Chili** [= in the River Yan-Chili]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. **[Note]**

solivaga PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 163 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **v rucheike za Botanicheskim sadom g. Stalinabada ** [= in a stream behind the Botanic Garden in Stalinabad City; now Stalinabad = Dushanbe]; **v r. Varzob** [= in the River Varzob]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

spinosa LINEVICH in LINEVICH, MAKARCHENKO & ALEKSANDROV, 2002: *Khironomidy Baikala i Pribaikal'ya*: 110 (as "Orthocladiinae g.?"). Locality: {Russia, East Siberia} **oz. Baikal, bereg Posol'skogo sora** [= Lake Baikal, shoreline lagoon at Posol'skii]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

tecta PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 145 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **v r. Varzob u Pugusa** [= in the River Varzob at Pugusa]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

tiltinshi PANKRATOVA, 1959: *Rybnoe Khozyaistvo Vnutrennykh Vodoemov Latviiskoi SSR* **3**: 193 (as "Orthocladiinae gen. ? l."). Type-locality: [Latvia] **v reke Tsietsere v Saldusskom raione** [= in the River Tsietsere in the Saldus district]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. **[Note]**

togatebea SASA & OKAZAWA, 1991: *Research Report from Toyama Prefectural Environmental Pollution Research Center* **1991**: 120 (*Togayusurika*). Locality: {Japan} [Abstract, p. 105] "Toga-mura, a village situated in the mountainous region of Toyama Prefecture". Name not made available - not accompanied by a description contrary to Article 13.1 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

tortuosa PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 144 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **v r. Kondare** [= in the River Kondar]; **v rucheike za Botanicheskim sadom ** [= in a stream behind the Botanic Garden]; **v r. Varzob** [= in the River Varzob]; **v r. Lyuchob** [= in the River Lyuchob]; **v r. Kafirnigan . . . u Yangi-bazara** [= in the River Kafirnigan . . . at Yangi-Bazara, now = in the River Kofarnihon . . . at Vahdat]; **v r. Khanakinke v Gissare** [= in the River Khanakinke at Gissare]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

triannulata PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 142 (as "Orthocladiinae g.? 1."). Localities: [Tajikistan] **v r. Varzob** [= in the River Varzob]; **v r. Khanakinke v Gissare** [= in the River Khanakinke at Gissare]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

undulata PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 139 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **v r. Varzob** [= in the River Varzob]; **r. Kafirnigan bliz vpadeniya v r. Varzob** [= River Kafirnigan near where it flows into the River Varzob; now River Kafirnigan = River Kofarnihon]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

ventae PANKRATOVA, 1959: *Rybnoe Khozyaistvo Vnutrennykh Vodoemov Latviiskoi SSR* **3**: 192 (as "Orthocladiinae gen. ? l."). Type-locality: [Latvia] **v reke Vente u goroda Skrundy** [= in the River Venta at the town of Skrunda]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN 1999, 4th Edition). **Nomen nudum**. **[Note]**

ventrisetosa PANKRATOVA, 1950: *Trudy Zoologicheskogo Instituta, Leningrad* **9**(1): 143 (as "Orthocladiinae g.? 1."). Locality: [Tajikistan] **v rodnike vyshe kurorta Khodzha-obi-garm** [= in springs above Khodzha-Obi-Garm Spa]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

walentinae PANKRATOVA, 1959: *Trudy Zoologicheskogo Instituta, Leningrad* **26**: 368 (as "Orthocladiinae g.? 1."). Localities: [Russia, Southern European Territory] [Title, p. 365] **Krasnodarskogo kraya** [= Krasnodar Krai]; [p. 370] **r. Chepsi**; **v r. Psekups u st. Fanagoriiskom** [= in the River Psekups by the Fanagoriisk stream]. Name not made available - not published in combination with an available genus name contrary to Article 11.9.3 of the Zoological Code (ICZN, 1999, 4th Edition). **Nomen nudum**.

NOTES

abdominoflavatus PICADO, 1913, **METRIOCNEMUS** (**METRIOCNEMUS**): The species *M.* (*M.*) *abdominoflavatus* was originally described from Costa Rica and reared from larvae found in phytotelmata of several plant genera including the epiphyte *Tillandsia* and the bromeliads *Billbergia* and *Catopsis*. However, the description is inadequate to distinguish it from other species of the genus known in the Americas. In the Nearctic Catalog (Oliver *et al.* 1990: 30) the species was listed from Florida, Kentucky, Mississippi and North Carolina. Epler (2001: Chapter 7, p. 89) states that it is very doubtful that this poorly described Costa Rican

species occurs in the United States and the records may refer to *M.* (*M.*) *fuscipes* (Meigen). The doubtful Nearctic records of *M.* (*M.*) *abdominoflavatus* are therefore excluded from the distribution data of this species.

abiskoensis EDWARDS, 1937, synonym of **ORTHOCLADIUS** (**EUORTHOCLADIUS**) **abiskoensis** THIENEMANN & KRÜGER, 1937: The description of *abiskoensis* Edwards begins on page 144 and not on page 140 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 204).

acuticauda CHERNOVSKII, 1949, **Unavailable names in ORTHOCLADIINAE**: The provisional name "Orthocladiinae gen.? l. *acuticauda*" was used by Chernovskii (1949: 22, 45, 94-95) and Pankratova (1970: 320-321) for a larval morphotype in coll. Chernovskii. The Russian locality data for this morphotype (from the Mologa River) is not specified in Chernovskii (1949) but the information has been supplied by Dr Andrey Przhiboro (pers. comm. to P. Ashe). Such larvae, as well as associated pupae, had been described earlier by Pagast (1936: 275-278) as "Orthocladiine aus Flußsand". It has remained unknown to which genus the species belongs, and no scientific name for it has been made available. The name *acuticauda* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

acuticornis (KIEFFER, 1912), **THIENEMANNIELLA**: The name "*Corynoneura acuticornis*" is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and wrongly on page 168 as a questionable synonym of *Corynoneura carriana* Edwards and secondly and correctly on page 234 as a valid species of *Thienemanniella*.

acuticornis (KIEFFER, 1914), **CHAETOCLADIUS** (**CHAETOCLADIUS**): The name *C.* (*C.*) *acuticornis* was first proposed by Kieffer in a preprinted separate of Potthast (1914) which was published in the year prior to the journal version in 1915 – see note on Pottast (1914) in the Bibliography.

acutilobata GOETGHEBUER, 1933, **Nomina dubia probably in SMITTIA**: The correct year of publication of the paper which includes the description of *acutilobata* is

1933 and not 1932 – see Bibliography under the relevant Goetghebuer (1933) paper.

acutus CHAUDHURI & NANDI, 1981, **ALLOTRISSOCLADIUS**: The correct year of publication of the description of *A. acutus* is 1981 and not 1979 or 1980 – see note in Bibliography under Chaudhuri & Nandi (1981).

acutus GOETGHEBUER, 1933, **Nomina dubia in LIMNOPHYES**: The correct year of publication of the paper which includes the description of *acutus* is 1933 and not 1932 – see Bibliography under the relevant Goetghebuer (1933) paper.

adriaticus SCHINER, 1857, **Nomina dubia in CLUNIO**: The original description of *C. adriaticus* Schiner is inadequate and it is therefore treated as a nomen dubium in *Clunio*. The species description begins on page 216 but it is only named on page 217 and the latter is considered as the correct page to cite. The paper which includes the description of *C. adriaticus* was published in 1857 and not 1856 – see note under Schiner (1857) in the Bibliography.

aduncus (KIEFFER, 1922), synonym of **LIMNOPHYES pentaplastus** (KIEFFER, 1921): *Camptocladius aduncus* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

adzharicus KOWNACKI & ZOSIDZE, 1973, synonym of **PARAMETRIOCNEMUS stylatus** (SPÄRCK, 1923): The name *P. adzharicus*, originally described as a subspecies of *P. stylatus*, is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

aegyptius KIEFFER, 1925, **Nomina dubia in CLUNIO**: The name *Clunio aegyptius* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990). The status of *C. aegyptius* Kieffer (1925), originally described as a variety of *C. marinus* Haliday, from Egypt (Suez, upper Red Sea), is unresolved and needs investigation – the description is inadequate and it is treated as a nomen dubium in *Clunio*.

afra (LEHMANN, 1981), **CORYNONEURELLA**: The species *C. afra* is tentatively transferred to the genus *Corynoneurella* from *Thienemanniella* in Fu, Hestenes

& Sæther (2010: 2) because the characters of the pupa are consistent with *Corynoneurella*.

AKIEFFERIELLA THIENEMANN, 1936: The first use of the name *Akiefferiella* (in Thienemann, 1936: *Stettiner Entomologische Zeitung* **97**(1): 43) is a nomen nudum and predates the valid *Akiefferiella* description (in Thienemann, 1936: *Archiv für Hydrobiologie* **30**(2): 198) by a few months.

albertae KEVAN & CUTTEN-ALI-KHAN, 1975, **OREADOMYIA**: In the quoted type-locality for the species all the information within square brackets is part of the originally published data as given in Kevan & Cutten-Ali-Khan (1975: 856). The genus and species was redescribed by Oliver (1981: *Quaestiones Entomologicae* **17**: 121-128).

albicornis (GOETGHEBUER, 1919), synonym of **NANOCLADIUS** (**NANOCLADIUS**) **dichromus** (KIEFFER, 1906): The name *Cricotopus albicornis* was first proposed based on the immature stages in Goetghebuer (1919) before the adult was described in Goetghebuer (1921) – see Spies & Sæther (2004: 10-11).

albilobus KIEFFER, 1924, **Nomina dubia probably in ORTHOCLADIUS** (**EUDACTYLOCLADIUS**): The name *albilobus* is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 203 as a nomen dubium probably in *Orthocladius* (*Eudactylocladius*) and secondly and wrongly on page 239 as a nomen dubium in Orthocladiinae.

albipennis (GOETGHEBUER, 1921), **PSEUDOSMITTIA**: The description, in a key, begins on page 85 but the species name *albipennis* is first mentioned on page 86. Page 86 is therefore considered to be the correct page to cite.

albusalatus CHAUDHURI & SINHARAY, 1989, synonym of **PARAPHAENOCLADIUS impensus** subsp. **croceus** CHAUDHURI & BHATTACHARYAY, 1989: The paper in which *P. albusalatus* was described was published in 1989 and not 1987 – see note under Chaudhuri & Sinharay (1989) in the Bibliography. See note on *P. impensus* subsp. *croceus* Chaudhuri & Bhattacharyay.

algarum KIEFFER, 1918, **Nomina dubia in ORTHOCLADIINAE**: The name

Trichocladius algarum Kieffer is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

algerinus MARCUZZI, 1950, **LIMNOPHYES**: Originally described as *Limnophyes algerina* but since *Limnophyes* is masculine the ending of the species name must be corrected to *algerinus* (Martin Spies pers. comm. to P.Ashe).

algicola (KIEFFER, 1923), questionable synonym of **CRICOTOPUS (ISOCLADIUS) intersectus** (STAEGER, 1839): The correct original spelling of the name is *algicola* and not *algiicola* as given in the Palaearctic Catalogue - Ashe & Cranston (1990: 177).

alpestris (GOETGHEBUER, 1934), **Nomina dubia in TVETENIA**: The name *Eukiefferiella alpestris* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990). It may be a senior synonym of an existing *Tvetenia* species but a detailed and thorough investigation is required, including examination of type and potential type material, before its status can be resolved (Martin Spies pers. comm. to P. Ashe). The necessary revision also needs to clarify whether or not the immature stages, described under the names *alpestris* and *bavarica* respectively by Thienemann and others, were misassociated, as appears to be the case today.

alpina (KIEFFER, 1927), **Nomina dubia probably in SMITTIA**: Originally described as *Phaenocladius alpinus* and not in the genus *Smittia* as incorrectly given in the Palaearctic Catalogue (Ashe & Cranston 1990: 230). In the last paragraph of the paper by Hubault (1927: 164) it states that he cannot absolutely confirm that the imago [of *Phaenocladius alpinus* described by Kieffer] relates to the larvae and nymphs previously described [by Hubault in the same paper]. This doubt is confirmed because the larvae and pupae belong to a species of the subfamily Diamesinae whereas the male imago is an orthoclad and a nomen dubium probably in *Smittia*.

altyncolicola LIPINA, 1949, **Unavailable names in ORTHOCLADIINAE**: The name *altyncolicola* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

ancudensis (EDWARDS, 1931), **GYMNOMETRIOCNEMUS** (**GYMNOMETRIOCNEMUS**): See note on *Gymnometriocnemus* (*Gymnometriocnemus*) *longicostalis* (Edwards, 1931).

ANDAMANUS MAHESHWARI & MAHESHWARI, 2002: The genus *Andamanus* and its type-species *A. manii* were originally described as adult females only and assigned to the subfamily Orthocladiinae (Maheshwari & Maheshwari 2002). However, the presence of a comb and the high leg ratio confirms that they belong in the subfamily Chironominae and key directly to the genus *Paralauterborniella* Lenz, 1941 (Prof. O. A. Sæther pers. comm. to P. Ashe). *Andamanus* Maheshwari & Maheshwari, 2002, is therefore a junior synonym of *Paralauterborniella* Lenz, 1941, **syn. nov.** and *Andamus manii* Maheshwari & Maheshwari, 2002, becomes *Paralauterborniella manii* (Maheshwari & Maheshwari, 2002), **comb. nov.** - this apparently represents the first confirmed record of *Paralauterborniella* from the Oriental Region. All the relevant information will be included in Part 3 of the World Catalogue.

anderseni SÆTHER & WANG, 1993, **TOKYOBRILLIA**: The species *T. anderseni* was described in 1993 and not in 1992 – see note in the Bibliography under Sæther & Wang (1993).

angustipennis STROBL, 1895, **Nomina dubia in ORTHOCLADIINAE**: The name *Metriocnemus angustipennis* Strobl is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

angustistilus FREEMAN, 1953, **EUKIEFFERIELLA**: Originally described as *Eukiefferiella angustistilus* the ending of the name is correct and should not be changed to *angustistila*.

angustus GOETGHEBUER, 1927, synonym of **CRICOTOPUS** (**CRICOTOPUS**) **festivellus** (KIEFFER, 1906): The name *Cricotopus angustus* was first described in a key by Goetghebuer (1927) who wrongly attributed the name to Verrall who had used the name in an unpublished manuscript. This name is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

annulator GOETGHEBUER, 1927, **CRICOTOPUS** (**CRICOTOPUS**): The description of *C.* (*C.*) *annulator* is on page 54 and not page 52 (the species key) as given in Ashe & Cranston (1990: 171).

anomalus (KIEFFER, 1913), **CRICOTOPUS** (**ISOCLADIUS**): The species *anomalus* was included in the subgenus *Isocladius* of the genus *Cricotopus* in Bhattacharyay, Ali & Chaudhuri (1991).

anteilis (ROBACK, 1957), **ORTHOCLADIUS** (**EUORTHOCLADIUS**). The species *anteilis* is based on two adult female specimens (Roback, 1957) and in a subsequent paper Roback (1959) described and figured a male specimen from Montana. However, it is not yet possible to identify to species females of the subgenus *Euorthocladius* (Soponis 1990: 17). The species *anteilis* is treated here as a valid in *Orthocladius* (*Euorthocladius*) based on male specimens from Montana and Idaho (Roback 1959, Soponis 1990) but whether or not these represent the same species described as females from Utah by Roback (1957) can only be resolved by rearing males and females (with associated pupal exuviae) from the type-locality in Utah.

aprilinus GOETGHEBUER, 1932, **Nomina dubia in ORTHOCLADIINAE**: The correct year of publication of the paper which includes the description of *aprilinus* is 1932 and not 1931 – see Bibliography under Goetghebuer (1932).

aquatilis (GOETGHEBUER, 1921), questionable synonym of **SMITTIA contingens** (WALKER, 1856): The name *aquatilis* was originally described in the genus *Camptocladius* and not in *Smittia* as incorrectly given in the Palaearctic Catalogue (Ashe & Cranston 1990: 228).

aquilonaris GOETGHEBUER, 1940, synonym of **ORTHOCLADIUS** (**ORTHOCLADIUS**) **nitidoscutellatus** LUNDSTRÖM, 1915: The name *aquilonaris* is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 207 as a synonym of *Orthocladius* (*Orthocladius*) *nitidoscutellatus* and secondly and wrongly on page 239 as a nomen dubium in Orthocladiinae.

arcuatus KIEFFER, 1921, **Nomina dubia in ORTHOCLADIINAE**: The original

description of *Metriocnemus arcuatus* is on page 84 and not on page 81 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 240).

arenarius (REMMERT, 1955), synonym of **ALLOCLADIUS arenarius** (STRENZKE, 1960): Remmert (1955) mentioned *Pseudosmittia arenaria* five years before Strenzke (1960) described the species. Any potentially diagnostic character states for *arenaria* that Remmert (1955) may have presented were "not accompanied by a description or definition that states in words characters that are purported to differentiate the taxon" (ICZN 1999, Art. 13.1.1) and his use of the name is a nomen nudum.

articularis SANTOS-ABREU, 1918, **Nomina dubia in ORTHOCLADIINAE**: The correct original spelling of the name is *articularis* and not *articulatus* as given in in the Palaearctic Catalogue (Ashe & Cranston 1990: 240).

asiaticus SINYAGINA, 1958, **Nomina dubia in CRICOTOPUS**: The name *Cricotopus asiaticus* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

atomaria (ZETTERSTEDT, 1850), **Nomina dubia in CORYNONEURA**: For the name *atomaria* the Palaearctic Catalogue (Ashe & Cranston 1990: 170) incorrectly gives the original genus as *Corynoneura* and the volume as volume 1 which are corrected to *Chironomus* and volume 9 respectively.

atratus KIEFFER, 1925, **Nomina dubia in ORTHOCLADIINAE**: The correct original spelling of the name is *atratus* and not *atractus* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 240).

attrita PANKRATOVA, 1950, **Unavailable names in ORTHOCLADIINAE**: The name *attrita* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

aurantiacus (KIEFFER, 1922), **Nomina dubia probably in ORTHOCLADIUS (ORTHOCLADIUS)**: According to Cranston (1999: 292), based on a re-examination of the male holotype, it is probably an undetermined species of *Orthocladius* (*Orthocladius*).

auripilus GOETGHEBUER, 1921, synonym of **METRIOCNEMUS fuscipes** (MEIGEN, 1818): The description begins on page 78 but the name *auripilus* is first

mentioned on page 79. Page 79 is therefore considered to be the correct page to cite.

AUSTROBRILLIA FREEMAN, 1961: Freeman (1961: 640) designated *Austrobrillia nudipennis* as the "Type and only known species" but the only species described is named *A. longipes*. The use of *A. nudipennis* is clearly a lapsus for *A. longipes*.

bacilliger KIEFFER, 1924, **Nomina dubia in ORTHOCLADIINAE**: See note on *Corynoneura marina* Kieffer, 1924.

balearicus BEZZI, 1913, **Nomina dubia in CLUNIO**: It is not possible to resolve the status of *C. balearicus* Bezzi from the original description and it is therefore treated as a nomen dubium.

balteatus (PHILIPPI, 1866), **Nomina dubia in CRICOTOPUS**: The year of publication of *C. balteatus* (Philippi) is changed from 1865 to 1866 – see note under Philippi (1866) in the Bibliography.

balticus HEIMBACH, 1978, **CLUNIO**: The species was described based on adult phenology alone but whether or not there are any morphological differences between the different stages and related species needs investigation.

barbatitarsis KIEFFER, 1916, **Nomina dubia in PSECTROCLADIUS**: The correct year of description of *barbatitarsis* is 1916 and not 1915 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 219).

barbicornis LINNAEUS, 1767, **Nomina dubia in CHIRONOMIDAE**: According to Martin Spies (pers. comm. to P. Ashe) the type is lost and the use of this name in Chironomidae, usually in *Chironomus* or *Orthocladius*, as attributed either to Linnaeus or to Fabricius, are all misidentifications. In her revision of the Nearctic *Orthocladius* (*Orthocladius*) Soponis (1977) did not recognise or even mention this species. Its treatment in the Nearctic Catalog (Oliver, Dillon & Cranston, 1990: 32) as a valid species in *Orthocladius* (*Orthocladius*) from the U.S.A. (Minnesota, South Dakota and Washington) is a misidentification and its inclusion was apparently based on it being listed in some older Nearctic

catalogs. The full entry for this species and a more detailed note will be included in Part 3 of the World Catalogue where it will be treated as a nomen dubium in Chironomidae.

barilochensis (EDWARDS, 1931), **AUSTROCLADIUS**: This species was previous treated as a valid but generically unplaced orthoclad but was included in *Austrocladius* in an unpublished list of type material in The Natural History Museum (London) (Spies & Reiss 1996: 91). However, the original description of *Spaniotoma* (*Orthocladius*) *barilochensis* is quite brief but states that it is a "Black species resembling *S. obliqua* rather closely, but differing as indicated below". Therefore most of the descriptive features given for *S. obliqua* arpply to both species except for the specific differences given for *S.* (*O.*) *barilochensis* but these differences fit within the range of variation in the generic diagnosis of Freeman (1961: 647-648). The fact that Freeman did not transfer the species to *Austrocladius* was probably an accidental omission. Based on the above data *S.* (*O.*) *barilochensis* is transferred to *Austrocladius*. and becomes *A. barilochensis* (Edwards, 1931), **comb. nov.**

basalis (MALLOCH, 1915), synonym of **NANOCLADIUS** (**NANOCLADIUS**) **distinctus** (MALLOCH, 1915): The name *N.* (*N.*) *basalis*, which was originally described as a variety of *Orthocladius* (*Trichocladius*) *distinctus* Malloch, is missing from the Nearctic Catalog (Oliver, Dillon & Cranston 1990).

bastini (GOETGHEBUER, 1932), synonym of **PARACRICOTOPUS niger** (KIEFFER, 1921): The correct year of publication of the paper which includes the description of *bastini* is 1932 and not 1931 – see Bibliography under the relevant Goetghebuer (1932) paper.

bathophilus KIEFFER, 1916, **Nomina dubia in ORTHOCLADIINAE**: The correct year of description of *bathophilus* is 1916 and not 1915 and the correct original spelling is *bathophilus* and not *bathophila* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 240).

baueri (GOETGHEBUER, 1955), synonym of **ACRICOTOPUS lucens** (ZETTERSTEDT,

1850): The name *baueri*, described as a variety of "*lucidus* Staeger", was originally included in the genus *Trichocladius* and not in the genus *Chironomus* as given in the Nearctic Catalog (Oliver, Dillon & Cranston 1990: 20).

bavarica (GOETGHEBUER, 1934), **TVETENIA**: Nearctic records of *T. bavarica* from North Carolina and South Carolina are considered doubtful and excluded from the distribution data because Epler (2001: Chapter 7, p. 154-155) indicates that all examined larvae are referable to *T. paucunca* (Sæther).

beluina ANDERSEN, 1997, **DIPLOSMITTIA**: The description of *Diplosmittia beluina* was almost certainly published in 1997 and not 1996 – see note in the Bibliography under Andersen (1997).

bequaerti GOETGHEBUER, 1939, synonym of **LIMNOPHYES natalensis** (KIEFFER, 1914): The correct spelling of the name is *bequaerti* and not *bequarti* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 196).

beringensis (CRANSTON & OLIVER, 1988), **METRIOCNEMUS** (**METRIOCNEMUS**): The correct original spelling of the name is *beringensis* and not *beringiensis* as given in Sæther (1995: 59).

bernadetti LEHMANN, 1979, **PSEUDORTHOCLADIUS** (**PSEUDORTHOCLADIUS**): The original description of *P. bernadetti* states that it lacks acrotrichials and has small pulvilli which if confirmed indicates that it does not belong in *Pseudorthocladius* or the *Pseudorthocladius* group of genera (Sæther & Andersen 1996: 253).

berthelemyi MOUBAYED, 1990, **PSEUDORTHOCLADIUS** (**PSEUDORTHOCLADIUS**): The correct year of publication of the description of *Pseudorthocladius* (*Pseudorthocladius*) *berthelemyi* is 1990 and not 1989 – see note in Bibliography under Moubayed (1990).

bicolor KIEFFER, 1901, synonym of **CLUNIO marinus** HALIDAY, 1855: The description of *bicolor* begins on page 72 and not page 73 as given in Ashe & Cranston (1990: 167) and the correct year of publication is 1901 and not 1900.

bicolor MEIGEN, 1838, **Nomina dubia in ORTHOCLADIINAE**: See note on *N.* (*N.*)

dichromus (Kieffer, 1906).

bicolor SÆTHER, 1968, synonym of **ORTHOCLADIUS (ORTHOCLADIUS) excavatus** BRUNDIN, 1947: The name *O.* (*O.*) *bicolor* Sæther is missing from the Palaearctic Catalogue (Ashe & Cranston 1990). Soponis (1977: 54) treated it as a junior synonym of *O.* (*O.*) *excavatus*.

bicolor WALTL, 1837, **Nomina dubia in ORTHOCLADIINAE**: See note on *Nanocladius* (*Nanocladius*) *dichromus* (Kieffer, 1906).

bicolor (ZETTERSTEDT, 1837), synonym of **NANOCLADIUS (NANOCLADIUS) dichromus** (KIEFFER, 1906): See note on *Nanocladius* (*Nanocladius*) *dichromus* (Kieffer, 1906).

bicolor (ZETTERSTEDT, 1838), synonym of **NANOCLADIUS (NANOCLADIUS) dichromus** (KIEFFER, 1906): See note on *Nanocladius* (*Nanocladius*) *dichromus* (Kieffer, 1906).

bidens KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: The name *C. bidens* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

bidentatus KIEFFER, 1924, **Nomina dubia in ORTHOCLADIINAE**: The description of *Dactylocladius bidentatus* begins on page 71 and not on page 69 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 240).

bidenticulatus (THIENEMANN, 1950), **Unavailable names in ORTHOCLADIUS (EUDACTYLOCLADIUS)**: The following note was prepared by Martin Spies (pers. comm. to P. Ashe). Cranston (1984: 886) considered the name *Eudactylocladius* '*bidenticulatus*' as available, and proposed a male (at the Institut Royale des Sciences Naturelles de Belgique, Brussels) and the associated pupal exuviae and larval skin (both at the Zoologische Staatssammlung, Munich) as lectotype, apparently interpreting a phrase quoted from Thienemann (1950: 132) as "a statement that purports to give characters differentiating the taxon" (ICZN 1961: Article 13(a)(i); the Code provision in effect at the time of Cranston 1984), i.e. "characters purported to differentiate the taxon" (ICZN 1999: Article 13.1.1). However, the German phrase of

Thienemann's (1950) quoted by Cranston (1984) incorporates *E.* '*bidenticulatus*' in a group of several species with identical pupal morphotype, rather than differentiating the former from any and all members of that group. Further evidence for this can be found in Thienemann (1944: 573), where the pupa of "*E. bidenticulatus*" was keyed as inseparable among the same group of species (again including "*E. adauctus*" and "*E. bipunctellus*") referred to in Thienemann (1950). Consequently, *Eudactylocladius* '*bidenticulatus*' in Thienemann (1944, 1950) is a nomen nudum, as it is in Thienemann (1954: 399), where no descriptive statement was given either. The lectotype designation in Cranston (1984), therefore, is invalid.

bifurcata KIEFFER, 1921, questionable synonym of **CORYNONEURA celeripes** WINNERTZ, 1852: The name *Corynoneura bifurcata* is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 168 as a questionable synonym of *Corynoneura celeripes* and secondly and wrongly on page 170 as a nomen dubium in *Corynoneura*.

bilobulatus (GOETGHEBUER, 1942), **CHAETOCLADIUS** (**CHAETOCLADIUS**): The correct original spelling of the species name is *bilobulatus* and not *bilobatus* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 164).

binodulus KIEFFER, 1921, **Nomina dubia in ORTHOCLADIINAE**: The correct original spelling is *binodulus* and not *binodulosus* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 241).

biuncus (KIEFFER, 1922), **Nomina dubia in LIMNOPHYES**: *Camptocladius biuncus* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

bivittata PHILIPPI, 1866, **Nomina dubia in ORTHOCLADIINAE**: The year of publication of *Spaniotoma melas* Philippi is changed from 1865 to 1866 – see note under Philippi (1866) in the Bibliography.

bizonatus FREEMAN, 1956, **CRICOTOPUS** (**CRICOTOPUS**): The larval pecten epipharyngis of *C.* (*C.*) *bizonatus* consists of three scales of similar size based on the description and drawings in Harrison (1992: 160, Fig. 31). Consequently

the species belongs to the subgenus *Cricotopus*.

borealis (KIEFFER, 1913), **Nomina dubia in CRICOTOPUS (CRICOTOPUS)**: The name *Trichocladius borealis* Kieffer was included twice in the Palaearctic Catalogue (Ashe & Cranston 1990): firstly on page 181 for a subgenerically unplaced valid species of *Cricotopus*, and secondly on page 241 as a nomen dubium in Orthocladiinae (with the page number for the original description erroneously cited as "59"). Hirvenoja (1973: 153) speculated that *T. borealis* could be a synonym of either *C.* (*C.*) *gelidus* (Kieffer) or *C.* (*C.*) *lestralis* (Edwards). In any such synonymy, *T. borealis* would become the valid name. Hrafnsdottir (2005: 10) referred to some earlier speculation about *T. borealis*, but – in the absence of type or other material – found no sound basis for using the name as valid today. We concur and, therefore, treat *T. borealis* as a nomen dubium.

boreoalpina (GOETGHEBUER, 1944), **KRENOSMITTIA**: The Nearctic records from Canada of *Krenosmittia boreoalpina* are regarded as uncertain in Oliver, Dillon & Cranston (1990: 28).

boreoalpinus GOWIN & THIENEMANN, 1942, **PARAMETRIOCNEMUS**: In the Palaearctic Catalogue (Ashe & Cranston 1990: 211) the species was given incorrectly as *boreoalpina* when the correct (and original combination) was *Parametriocnemus boreoalpinus*. The authorship of *boreoalpinus* is credited to Gowin & Thienemann and not to Gowin in Gowin & Thienemann for the reasons given in Spies & Sæther (2004: 11).

brachydicrana (EDWARDS, 1927), **PSEUDOSMITTIA**: The species *P. brachydicrana* is widespread in the Pacific and its occurrence in Jamaica, with no other reported records from the Neotropical Region, may seem inexplicable. In our opinion, its occurrence in Jamaica is almost certainly due to human influence associated with the transport of potted Breadfruit plants from Tahiti to Jamaica in the late 18th Century (1793). The species may occur elsewhere in the Caribbean where Breadfruit is grown.

brachytoma KIEFFER, 1927, **Nomina dubia in PSECTROCLADIUS**: Originally

Psectrocladius brachytoma was described as a variety of *P. sphagnicola* Kieffer, 1925 and not as a variety of *P. sphagnorum* Kieffer, 1927, as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 221). In addition, the synonymy should apply to *sphagnicola* and not to *sphagnorum*.

brachytomus (KIEFFER, 1922), **LIMNOPHYES**: The original description of *brachytomus* is on page 22 and not page 21 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 241) and the species was listed as a nomen dubium in Orthocladiinae. A subsequent re-examination and redescription of the types (Sæther 1990: 49) has shown that it is a valid species of *Limnophyes*.

brasiliensis OLIVEIRA, 1950, **CLUNIO**: The record of *Clunio brasiliensis* from Puerto Rico in Roback (1971) is believed to represent a different species (Spies & Reiss 1996: 91) and its occurrence in Puerto Rico is therefore doubtful.

brevidensi ŞAHIN, 1987, **Nomina dubia in THIENEMANNIELLA**: *Thienemanniella brevidensi* was described in the larval stage only and consequently it is treated as a nomen dubium based on Fu, Sæther & Wang (2010: *Zootaxa* **2431**: 3).

brevinervis KIEFFER, 1916, synonym of **BRILLIA bifida** (KIEFFER, 1909): The description of *brevinervis* begins on page 515 and not on page 516 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 160).

brevipalpis (DORIER, 1926), synonym of **SYMBIOCLADIUS** (**SYMBIOCLADIUS**) **rhithrogenae** (ZAVŘEL, 1924): The name *Dactylocladius brevipalpis* is missing from most primary sources on Chironomidae (including the Palaearctic Catalogue); its existence was discovered by Martin Spies. It was published in two papers by Dorier (1926, 1927) with the 1926 paper taking priority. The species name is cited as "*Dactylocladius brevipalpis* Goetghebuer" in both works but the first paper reveals no nomenclaturally relevant contribution by Goetghebuer; hence authorship of the species name is credited to Dorier. The second paper (Dorier 1927) includes a more detailed description. The synonymy with *S. rhithrogenae* is based on the above deductions, Dorier's descriptions of the immature stages, and on the fact that only one species of *Symbiocladius* is

known throughout the Palaearctic region. Goetghebuer in Goetghebuer & Lenz (1950: 205) negated the synonymy – without explanation, presumably on account of differences he perceived in adult male morphology – but that opinion could become relevant only after revision of the features and type status of the single corresponding specimen.

brevipennis (BOHEMAN, 1865), **SMITTIA**: The adult female, which may be a parthenogenetic species, was re-described by Sæther (2004: *Zootaxa* **595**: 22-23) based on material from Russia (East Siberia).

brevis OLIVER, 1981, **EURYHAPSIS**: The description of *Euryhapsis brevis* begins on page 720 and not on page 714 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 186).

brevistilus (KIEFFER, 1921), synonym of *curtistylus* (GOETGHEBUER, 1944), **Nomina dubia in LIMNOPHYES**: The name *Camptocladius brevistilus* Kieffer, 1921 is preoccupied by *Camptocladius brevistylus* Kieffer, 1908, even though there is a one letter difference (i/y) in spelling. This is based on Code Article 58.2 (ICZN, 1999 4th Edition) which states that species-group names established for different nominal taxa that differ in spelling only in use of *ei, i* or *y* are deemed to be homonyms when the nominal taxa they denote are included in the same genus or collective group.

britae SÄWEDAL, 1976, **CHAETOCLADIUS** (**CHAETOCLADIUS**): The correct original spelling of the species name is *britae* and not *brittae* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 164).

brundini MAKARCHENKO & MAKARCHENKO, 2008, **Generically Unplaced Valid ORTHOCLADIINAE**: See note on *restricta* Brundin, a valid generically unplaced species of Orthocladiinae.

brunettii (KIEFFER, 1913), **CRICOTOPUS** (**ISOCLADIUS**): The species *brunettii* was included in the subgenus *Isocladius* of the genus *Cricotopus* in Bhattacharyay, Ali & Chaudhuri (1991).

brunneri ASHE & O'CONNOR, 2000, **METRIOCNEMUS** (**CRYMALEOMYIA**): The

following text in square brackets "[Abruzzi Glacier]" is part of the original type-locality data.

brunnipes (GOETGHEBUER, 1921), synonym of **PARACLADIUS conversus** (WALKER, 1856): The description, in a key, begins on page 98 but the name *brunnipes* is first mentioned on page 99. Page 99 is therefore considered to be the correct page to cite.

bryophilus (POTTHAST, 1914), synonym of **CRICOTOPUS (CRICOTOPUS) bicinctus** (MEIGEN, 1818): See note on *Hydrobaenus distylus* (Potthast, 1914).

bubrachiatus EPLER, 1986, **NANOCLADIUS (PLECOPTERACOLUTHUS)**: In the description heading the new species is given as "*Nanocladius bubrachiatus*" but throughout most of the paper it is consistently listed in the subgenus *Plecopteracoluthus* and therefore the original combination is considered to be *Nanocladius* (*Plecopteracoluthus*) *bubrachiatus*.

callinotus KIEFFER, 1911, **METRIOCNEMUS (METRIOCNEMUS)**: In the Oriental Catalog (Sublette & Sublette 1973: 400) the species *M. callinotus* was included as a valid but subgenerically unplaced species in the Orthocladiinae. Sinharay & Chaudhuri (1978) include a partial redescription of the species based on an examination of the fragmentary holotype and include it as a valid species in the genus *Metriocnemus*.

calonotum (EDWARDS, 1931), **STICTOCLADIUS**: The ending of the species name given as *calonotus* in the Neotropical Catalog (Spies & Reiss 1996: 78) is incorrect. According to Martin Spies (pers. comm. to P. Ashe) Edwards (1931) proposed several other new names in *Spaniotoma* in adjectival form as indicated by the feminine gender ending that was correct under the circumstances. Therefore, *calonotum* should be interpreted as intentionally formed as a noun in apposition (notum = dorsal parts of thorax) the ending of which remains unchanged.

calvescens (EDWARDS, 1929), **TVETENIA**: Nearctic records of *T. calvescens* from Georgia are considered doubtful and excluded from the distribution data because Epler (2001: Chapter 7, p. 154-155) indicates that all examined larvae

are referable to *T. paucunca* (Sæther).

CAMPTOCLADIUS WULP, 1874: The generic names *Camptocladius*, *Cricotopus*, *Eurycnemus*, *Metriocnemus* and *Orthocladius* were first published by Wulp (1874: *Tijdschrift voor Entomologie* **16**: LXIX-LXXI) which was a preliminary short paper which preceded more detailed descriptions in Wulp (1875: *Tijdschrift voor Entomologie* **17**(5): 113-148). See notes under Wulp (1874, 1875) in the Bibliography.

camptophleps (EDWARDS, 1929), **KRENOSMITTIA**: The Nearctic record of *Krenosmittia camptophleps* from Canada (British Columbia) is regarded as uncertain in Oliver, Dillon & Cranston (1990: 28).

carbonarius KIEFFER, 1923, **CRICOTOPUS** (Subgenerically Unplaced): The correct year of the description of *Cricotopus carbonarius* is 1923 and not 1922 as given in the Oriental Catalog (Sublette & Sublette 1965: 397).

CATALIPTUS BEZZI, 1916, **Nomina dubia in ORTHOCLADIINAE**: Until the status of the genus *Cataliptus* is resolved from the type material it is treated as a nomen dubium. However, the type-species, *C. peyerimhoffi* Bezzi, is regarded as a valid generically unplaced species of Orthocladiinae because the original description is sufficient distinct that the species should be easily identifable if it is re-discovered.

caudicula SÆTHER & ANDERSEN, 2010, **FERRINGTONIA**: Krosch *et al.* (2011: 466) indicate that *F. caudicula* warrants separate generic status to the type-species of *Ferringtonia* (*F. patagonica* (Edwards)).

cavernae (FREEMAN, 1962), **PARAKIEFFERIELLA**: The species, originally described as *Eusmittia cavernae*, was recently transferred to the genus *Parakiefferiella* by Ferrington & Sæther (2011: 8).

cavicola KIEFFER, 1921, **METRIOCNEMUS** (**METRIOCNEMUS**): The correct name for the species found in water-filled cavities in beech trees in Europe is *M. cavicola* and not *M. martinii* which is a nomen nudum as indicated in Spies & Sæther (2004: 24).

cheethami (EDWARDS, 1929), synonym of **PARAKIEFFERIELLA bathophila** (KIEFFER, 1912): The correct original spelling is *cheethami* and not *cheethamii* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 209).

chilensis PAGGI, 1985, **CLUNIO**: The species *Clunio chilensis* is missing from the Neotropical Catalog (Spies & Reiss 1996).

ciliatipes (KIEFFER, 1924), synonym of **HYDROBAENUS pilipes** (MALLOCH, 1915): The description of *ciliatipes* begins on page 63 and is completed on page 64 but since it is only named on page 64 the latter page is therefore considered to be the correct page to cite.

claggi (TOKUNAGA, 1964), questionable synonym of **COMPTEROSMITTIA nerius** (CURRAN, 1930): *Metriocnemus claggi* appears to be identical to *C. nerius* but the condition of the type-material of *claggi* is too poor for confirmation of the synonymy (Mendes, Andersen & Sæther, 2004: 66, 69).

clavatiforceps (KIEFFER, 1922), **Nomina dubia in SMITTIA**: *Camptocladius clavatiforceps* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

clavatus ANDERSEN & MENDES, 2010, **BRYOPHAENOCLADIUS**: The square brackets, around the longitude and latitude, are part of the original type-locality data for *B. clavatus*.

clavatus (KIEFFER, 1924), questionable synonym of **PARATRICHOCLADIUS skirwithensis** (EDWARDS, 1929): The "Holstein" type-locality given in Kieffer (1924) for *Trichocladius clavatus* is apparently an error. The collecting date and documents (in the Zoologische Staatssammlung, Munich) indicate that the correct type-locality is that given in Thienemann (1926) (Martin Spies pers. comm. to P. Ashe).

claviculata (EDWARDS, 1931), **PARAKIEFFERIELLA**: This species was previously a valid unplaced orthoclad but recently Massaferro *et al.* (2009) confirm that it is a valid species of *Parakiefferiella*.

CLUNIONINAE KIEFFER, 1906: see note on Orthocladiinae Kieffer, 1911.

clypeata (THIENEMANN, 1919), **EUKIEFFERIELLA**: The text on the name "*Dactylocladius clypeatus*" in Thienemann (1919: 27) includes a reference to "Potthast p. 294". On the cited page in Potthast (1914) there is a description of the pupa (under a provisional name, not as *clypeatus*). According to Martin Spies (pers. comm. to P. Ashe) this reference to Potthast (1914) in Thienemann (1919) constitutes a nomenclaturally acceptable form of description by "indication" (Code Article 12.2 - ICZN, 1999), and apparently all other formal requirements are satisfied as well. Consequently, the name *Dactylocladius clypeatus* is available from Thienemann (1919). The corresponding material –a rather numerous syntype series – is preserved in the Zoologische Staatssammlung (Munich).

comprimata PANKRATOVA, 1950, **Unavailable names in ORTHOCLADIINAE**: The original description of *comprimata* is on page 143 and not on page 145 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 252).

conjungens (BRUNDIN, 1947), **PSECTROCLADIUS** (**ALLOPSECTROCLADIUS**): The correct original spelling is *conjungens* and not *conjugens* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 164).

conjungens (KIEFFER, 1916), questionable synonym of **CRICOTOPUS** (**ISOCLADIUS**) **intersectus** (STAEGER, 1839): The correct original spelling is *conjungens* and not *conjugens* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 177).

CONOCLADIUS KIEFFER, 1910, **Nomina dubia in ORTHOCLADIINAE**: The genus *Conocladius*, with one included species (*C. flavus*), appears to be quite distinctive due to a cone-shaped extension on the top of the head as illustrated in Kieffer (1910, Plate. XI, Fig. 15). However, the genus is inadequately described and characterised and may be a synonym of an existing genus and it is therefore best treated as a nomen dubium. The type-species, *C. flavus*, which should be recognisable from the figures and description, is treated as a generically unplaced valid species of Orthocladiinae.

constrictus (KIEFFER, 1922), **Nomina dubia in LIMNOPHYES**: *Camptocladius constrictus* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

cornis PANKRATOVA, 1972, **Nomina dubia in ORTHOCLADIINAE**: The name *Brillia cornis* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

crassipes (MEIGEN in PANZER, 1810), **EURYCNEMUS**: The authorship and date of the species *E. crassipes* is credited to Meigen in Panzer (1810) and not to Panzer (1813) for the reasons given in Spies & Sæther (2004: 22). See also note under Panzer (1810) in the Bibliography.

crassus (KIEFFER, 1915), synonym of **CRICOTOPUS (ISOCLADIUS) sylvestris** (FABRICIUS, 1794): The name *crassus* was included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 179 as a synonym of *Cricotopus* (*Isocladius*) *sylvestris* and secondly and incorrectly on page 204 as a nomen dubium probably in *Eudactylocladius*.

crescens (KIEFFER, 1916), **Nomina dubia in LIMNOPHYES**: The correct year of description of *crescens* is 1916 and not 1915 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 194). It is not a valid species because the female type is apprently lost and it shoild be treated as a nomen dubium (Sæther 1990: 83).

CRICOTOPUS WULP, 1874: See note under *Camptocladius* Wulp, 1874.

cryptodentatus SYCHEVA, 1955, **Nomina dubia probably in CRICOTOPUS**: The name *Cricotopus cryptodentatus* is missing from the Palaearctic Catalogue (Ashe & Cranston, 1990).

cubita (GARRETT, 1925), **Nomina dubia in THIENEMANNIELLA**: The name *C. cubita* was described based on the adult female only and consequently is treated as a nomen dubium in *Thienemanniella* in Fu, Sæther & Wang (2010: *Zootaxa* **2431**: 3).

cultriger KIEFFER, 1908, **DIPLOCLADIUS**: According to Sæther (1982: 471) *Diplocladius cultriger* is probably a complex of cryptic species and not a single

highly variable species. The Neotropical record is based on the finding of the species in the profundal of Lake Managua, Nicaragua, by Bylmakers & Sobalvarro (1988: 34, 37).

cuneatus (EDWARDS, 1929), **Nomina dubia in PARAPHAENOCLADIUS**: *Paraphaenocladius cuneatus* (Edwards, 1929) was described based only on the adult female which could belong to a described species in which the female is unknown (Sæther & Wang 1995: 65). Consequently, until associated males are discovered, it is best to treat it as a nomen dubium.

currani SPIES & REISS, 1996, **Subgenerically unplaced valid species of CRICOTOPUS**: In Spies & Reiss (1996: 76) *C. currani* was proposed as a replacement name for *C. insolitus* Curran, 1928 which is preoccupied by the fossil species *C. insolitus* which was credited to "Kieffer" in Meunier, 1904 (Separate). However, in the footnote (see Bibliography) on the first page of Meunier (1904 - Separate) the words "*soumis à*" was mistranslated as "submitted by" Kieffer (indicating that Kieffer is the taxonomic author) rather than as "submitted to" Kieffer (which does not confer taxonomic authorship on Kieffer). Therefore, Meunier (1904 - Separate) is the sole author of *C. insolitus* and all other fossil chironomid species described in that work.

decempilosus SÆTHER, 1966, synonym of **DIPLOCLADIUS cultriger** KIEFFER, 1908: The name *decempilosus* Sæther is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

decorus GOETGHEBUER, 1927, synonym of **CRICOTOPUS (CRICOTOPUS) similis** GOETGHEBUER, 1921: The description of *C.* (*C.*) *decorus* is on page 54 and not page 53 (the species key) as given in Ashe & Cranston (1990: 175).

dentatus (KARL, 1937), **BRYOPHAENOCLADIUS**: In the Palaearctic Catalogue (Ashe & Cranston 1990: 166) it was listed as a nomen dubium in *Chaetocladius* but is now a valid species of *Bryophaenocladius* in Fauna Europaea (Sæther & Spies 2011).

dentatus TUISKUNEN, 1986, **DONCRICOTOPUS**: The paper in which *D. dentatus* was

described was published in 1986 and not 1985 – see note under Tuiskunen (1986) in the Bibliography.

dentifer SUBLETTE & WIRTH, 1980, **KUSCHELIUS**: The following text in square brackets "[Cove]" is part of the original type-locality data of *K. dentifer*.

despectus KIEFFER, 1923, **Generically Unplaced Valid ORTHOCLADIINAE**: The correct year of description of *Camptocladius despectus* is 1923 and not 1922 as given in the Oriental Catalog (Sublette & Sublette 1965: 400).

devius KIEFFER in THIENEMANN, 1916, **Nomina dubia in ORTHOCLADIINAE**: The correct year of description of *Camptocladius devius* is 1916 and not 1915 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 242).

dichromus (KIEFFER, 1906), **NANOCLADIUS (NANOCLADIUS)**: The species name *Nanocladius* (*N.*) *dichromus* (Kieffer, 1906) is missing from the Palaearctic Catalogue (Ashe & Cranston 1990) but was originally proposed as a replacement name and remains the valid name for *Chironomus bicolor* Zetterstedt as long as no older available name is demonstrated to be synonymous (Martin Spies pers. comm. to P. Ashe). For a resolution to the complex problem involving *N.* (*N.*) *dichromus*, *Chironomus bicolor* Waltl, 1837, *C. bicolor* Zetterstedt, 1837, *C. bicolor* Zetterstedt, 1838 and *C. bicolor* Meigen, 1838, we quote the following text from Spies & Sæther (2004: 24):- "*Nanocladius dichromus* (Kieffer) = *Chironomus bicolor* Zetterstedt, not Waltl. Two identical combinations *Chironomus bicolor* were published in 1838 for different species, one by Meigen, the other by Zetterstedt. Edwards (1929: 351) knew this but could not establish priority and did not propose a solution. In fact, both names were published first in 1837: *C. bicolor* Waltl, 1837 (in Isis 1837/4: 279 — this is the same species as in Meigen, 1838: 7) is available, whereas *C.* "bicolor" of Zetterstedt (1837; in Isis 1837/1) is older but a nomen nudum (no description or equivalent included). Thus, Waltl's combination has priority, and in fact this has long been recognized and implemented: Kieffer (1906: 17 in his world catalog in Wytsman's "Genera insectorum" volume 42) has published

Chironomus dichromus as a replacement for *C.* "bicolor" of Zetterstedt."

dilatatus (WULP, 1859), synonym of **ACRICOTOPUS lucens** (ZETTERSTEDT, 1850): *Chironomus dilatatus* was described as new by Wulp in three separate papers all published in 1859. The earliest description, published on the 30 July 1859, is Wulp (1859: *Tijdschrift voor Entomologie* **2**: 159-185) but this paper is frequently cited in the chironomid literature as 1858 but 1859 is the correct year. The second and third descriptions of *C. dilatatus* were published simultaneously in October 1859 in the same volume (Wulp, 1859: *Bouwstoffen voor eene fauna van Nederland* **3**: 1-32) and (Wulp, 1859: *Bouwstoffen voor eene fauna van Nederland* **3**: 32-33). In the Palaearctic Catalogue (Ashe & Cranston 1990), *C. dilatatus* was included in two places, firstly (on p. 159, mispelt as *dilatus*) as a questionable synonym of *Acricotopus lucens* (Zetterstedt, 1850) and secondly (on p. 216) as a questionable synonym of *Psectrocladius* (*Allopsectrocladius*) *obvius* (Walker, 1856). In Fauna Europaea (Sæther & Spies 2011), *C. dilatatus* is a synonym of *A. lucens* but this was not corrected in this Catalogue at proof stage where the various "*dilatatus* Wulp" names are incorrectly synonymized with *P.* (*A.*) *obvius*. In the addendum on p. 968, this error is corrected.

discoloripes (GOETGHEBUER & THIENEMANN, 1936), **TVETENIA**: The authorship of *discoloripes* is credited to Goetghebuer & Thienemann in Thienemann and not to Goetghebuer in Thienemann for the reasons given in Spies & Sæther (2004: 11).

discretus (JOHANNSEN, 1932), **Nomina dubia in PARAPHAENOCLADIUS**: The type-material of *discretus* (Johannsen, 1932) is not present in the Johannsen collection in Cornell but the original description enables placement in *Paraphaenocladius* where it is a nomen dubium (Sæther & Wang, 1995: 65).

dispar GOETGHEBUER, 1942, **Nomina dubia probably in ORTHOCLADIUS** (**ORTHOCLADIUS**): Until the status of *Orthocladius dispar* is resolved we treat it as a nomen dubium in (*Orthocladius* (*Orthocladius*) because of the

problems concerning it and related species which are discussed in detail by Spies & Sæther (2004: 24-26).

distinctus CHAUDHURI & BHATTACHARYAY, 1989, synonym of **PARAPHAENOCLADIUS impensus** subsp. **croceus** CHAUDHURI & BHATTACHARYAY, 1989: See note on *P. impensus* subsp. *croceus* Chaudhuri & Bhattacharyay.

distylus (POTTHAST, 1914), **HYDROBAENUS**: Eight species names (*Trichocladius lambertoni*, *T. bryophilus*, *T. longistilus*, *T. niveimanus*, *Camptocladius foenisuga*, *Camptocladius hexatomus*, *Orthocladius distylus* and *Orthocladius rivinus*) were described for the first time based on the immature stages in Potthast (1914) that precede the adult descriptions in Kieffer (1915), or Kieffer (1921) or Kieffer (1923) – see Spies & Sæther (2004: 10-11). All the above eight names first published in Potthast (1914) have priority over those used by Kieffer but since Potthast did not use an expression such as "n. sp." or equivalent the same names in Potthast (1915) do not constitute eight additional separately named taxa. See also the note under Potthast (1914) in the Bibliography.

dixidoides PANKRATOVA, 1950, **Unavailable names in ORTHOCLADIINAE**: The correct original spelling is *dixidoides* and not *dixioides* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 252).

dobrogicus ALBU, 1964, **CRICOTOPUS** (**ISOCLADIUS**): The correct original spelling of the species name is *dobrogicus* and not *dobroginus* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 177).

doloplastoides LUNDSTRÖM, 1917, **Nomina dubia in ORTHOCLADIINAE**: The correct year of publication of the description of *Orthocladius doloplastoides* by Lundström is 1917 and not 1916 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 242) - see note under Poppius, Lundström & Frey (1917) in the Bibliography.

dorsalis KIEFFER, 1909, **Nomina dubia in PSECTROCLADIUS**: In the Palaearctic

Catalogue (Ashe & Cranston 1990: 220) for *dorsalis* under the type-locality is says "not given (Germany)" but this is incorrect as the village of Haltern is specified.

dupla (TOKUNAGA, 1964), **PSEUDOSMITTIA**: The record of *P. dupla* from the Oriental Region (Sagar Islands, West Bengal, India) in Mazumdar *et al.* (1997) is disregarded because the male hypopygium figured in the latter is quite different to that figured in Tokunaga (1964).

duplicata CASPERS, 1990, **PSEUDOSMITTIA**: The use of the name Changshu (a city in Jiangsu Province in Oriental China) in the type-locality data for *P. duplicata* is an error. The correct city name is Changchun which is in Jilin Province where the type material was collected.

dzintari PANKRATOVA, 1959, **Nomina dubia in EUKIEFFERIELLA**: The name *E. dzintari* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

edwardsi BRUNDIN, 1949, synonym of **PSECTROCLADIUS** (**PSECTROCLADIUS**) **limbatellus** (HOLMGREN, 1869): The description of *edwardsi* begins on page 816 and not on page 815 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 218).

elegans MAKARCHENKO & MAKARCHENKO, 2002, **CHAETOCLADIUS** (**CHAETOCLADIUS**): The paper in which *C.* (*C.*) *elegans* is described was published in 2002 and not 2001 – see note under Makarchenko & Makarchenko (2002) in the Bibliography.

ellipsoidalis (KIEFFER, 1923), questionable synonym of **CHAETOCLADIUS** (**CHAETOCLADIUS**) **perennis** (MEIGEN, 1830): See note on *Pachycladius* Kieffer, 1923.

eltoni (EDWARDS, 1922), **LIMNOPHYES**: The correct year of the description of *Camptocladius eltoni* is 1922 and not 1921 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 194).

ephemerae (KIEFFER, 1924), **EPOICOCLADIUS**: *Epoicocladius. ephemerae* and *E. flavens* (Malloch, 1915) are now regarded as separate valid species and not

synonyms of one another.

EPOICOCLADIUS ŠULC & ZAVŘEL, 1924: The correct page on which *Epoicocladius* is named is page 368 and not page 356 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 182).

equalis SINHARAY & CHAUDHURI, 1985, **NASUTICLADIUS**: The description of *N. equalis* was published in 1985 and not 1984 – see note under Sinharay & Chaudhuri (1985) in the Bibliography.

ERETMOPTERINAE KELLOGG, 1900: see note on Orthocladiinae Kieffer, 1911.

EUCLUNIO GOETGHEBUER, 1950: When Goetghebuer created the subgeneric name *Euclunio* he included four *Clunio* species from the Pacific but because he did not designate a type-species it is a nomen nudum. See Ashe (1983: 23) for additional details.

EUKIEFFERIELLA THIENEMANN, 1926: Thienemann's (1926) original designation of *Dactylocladius longicalcar* Kieffer, 1911, as the type-species of *Eukiefferiella*, was based on a misidentification. For more details and a resolution to the problem see Spies & Sæther (2004: 21).

EUPHAENOCLADIUS THIENEMANN, 1934: See note on *Phaenocladius* Kieffer.

europaeus TUISKUNEN, 1986, **PSILOMETRIOCNEMUS**: The paper in which *P. europaeus* was described was published in 1986 and not 1985 – see note under Tuiskunen (1986) in the Bibliography.

EURYCNEMUS WULP, 1874: All published records up to the present time of *Eurycnemus* from outside the Palaearctic are completely erroneous. See also note under *Camptocladius* Wulp, 1874.

excavatus BRUNDIN, 1947, **ORTHOCLADIUS** (**ORTHOCLADIUS**): Two competing taxonomic interpretations relevant to this name presently exist – see Spies & Sæther (2004: 24) for more details.

exilis (SANTOS-ABREU, 1918), synonym of **HALOCLADIUS** (**HALOCLADIUS**) **millenarius** (SANTOS-ABREU, 1918): The name *exilis*, originally described as one of five varieties of *millenarius*, is missing from the Palaearctic Catalogue

(Ashe & Cranston 1990).

extrema ALBU, 1972, **HELENIELLA**: The description of the species *H. extrema* in Albu (1972) begins on page 15 and not on page 16 as given in Ashe & Cranston (1990: 228).

faeroensis KIEFFER, 1915, **Nomina dubia in ORTHOCLADIINAE**: The correct original spelling is *faeroensis* and not *faroensis* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 242).

fasciata KIEFFER, 1925, **Nomina dubia in CORYNONEURA**: The name *Corynoneura fasciata* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

femoratus (STAEGER, 1839), **Nomina dubia in NANOCLADIUS (NANOCLADIUS)**: *Chironomus femoratus* was included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly on page 201 as a junior synonym of *Nanocladius* (*N.*) *bicolor* Zetterstedt, 1838, and secondly and wrongly on page 353 as a nomen dubium in Chironominae. The description of *Chironomus femoratus* was based on the adult female only and it is therefore now treated as a nomen dubium in *Nanocladius* (*Nanocladius*) until its true status is resolved.

filipes (SANTOS-ABREU, 1918), **BRYOPHAENOCLADIUS**: In the lectotype locality data for *B. filipes* in Cranston & Armitage (1988: 344) the word "Estio" is not relevant as it is part of the expression "en los meses de Estío" which means "in the Summer months".

fischeri (KIEFFER, 1922), synonym of **LIMNOPHYES pentaplastus** (KIEFFER, 1921): *Camptocladius fischeri* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

fissicornis KIEFFER, 1906, **Nomina dubia in ORTHOCLADIINAE**: *Trichocladius fissicornis* is the only named species included in the subgenus *Trichocladius* in Kieffer (1906: *Genera Insectorum* **42**: 27) and therefore the key characters used to define the subgenus also applies to and constitutes a valid description of *T. fissicornis*.

fissicornis KIEFFER, 1906, **Nomina dubia in ORTHOCLADIINAE**: In Kieffer (1906:

Annales de la Société Scientifique de Bruxelles, 2e partie (Mémoires) **30**: 355) the species is described on page 355 as *Orthocladius fissicornis* but on page 356 it is designated as the type-species of a new subgenus, *Trichocladius*, of the genus *Orthocladius*. The original combination of the species is therefore considered to be *Orthocladius* (*Trichocladius*) *fissicornis*.

flava (KIEFFER, 1923), **Nomina dubia in THIENEMANNIELLA**: *Kribiocladius flava* was regarded as a doubtfully valid species of *Thienemanniella* in Freeman & Cranston (1980: 186). It was described based on an adult female only and the type is apparently lost (Fu *et al.* 2010: 1) and therefore it is regarded as a nomen dubium in *Thienemanniella*.

flavellus (TOKUNAGA, 1964), **PARAMETRIOCNEMUS**: The description of *flavellus* begins on page 204 and not on page 202 as given in Cranston & Martin (1989: 262).

flavens (MALLOCH, 1915), **EPOICOCLADIUS**: See note on *E. ephemerae* (Kieffer, 1924).

flaviforceps (KIEFFER, 1911), synonym of **SYNORTHOCLADIUS semivirens** (KIEFFER, 1909): Several localities are mentioned in Thienemann (1912: 79, sub *breviradius* var. *flaviforceps*) and at least one of these almost certainly represents the actual type-locality of the specimens described by Kieffer (1911).

flavifrons (JOHANNSEN, 1905), **BRILLIA**: For several years the species *Brillia flavifrons* (Johannsen, 1905) was believed to be a senior synonym of *B. longifurca* Kieffer, 1921, but both are now regarded as distinct species. *Brillia flavifrons* is known to occur in the Nearctic and the Eastern Palaearctic (Japan and Russia (Far East, West Siberia)) but all published records from the Western Palaearctic (Europe, Near East and North Africa) are highly doubtful and probably misidentified specimens of *B. longifurca*.

flavipunctatus TOKUNAGA, 1936, **CRICOTOPUS** (**CRICOTOPUS**): The species description of *C.* (*C.*) *flavipunctatus* begins on page 31 and not on page 20 as given in the Palaearctic Catalogue (Ashe & Cranston, 1990: 181).

flaviventris (SANTOS-ABREU, 1918), synonym of **HALOCLADIUS** (**HALOCLADIUS**)

millenarius (SANTOS-ABREU, 1918): The name *flaviventris*, originally described as one of five varieties of *millenarius*, is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

flavofasciatus KIEFFER, 1911, **Nomina dubia in PSECTROCLADIUS**: *Psectrocladius flavofasciatus* is described on page 185 and not page 184 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 220).

flavus KIEFFER, 1910, **Generically Unplaced Valid ORTHOCLADIINAE**: See note on *Conocladius* Kieffer.

flexidens (BRUNDIN, 1947), **BRYOPHAENOCLADIUS**: The correct page of the species description of *flexidens* is 24 and not 25 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 161).

fluviatilis (GOETGHEBUER, 1937), synonym of **PARATRISSOCLADIUS excerptus** subsp. **excerptus** (WALKER, 1856): The name *fluviatilis* was originally described in the genus *Trissocladius* and not in *Paratrissocladius* as given in Ashe & Cranston (1990: 214).

foenisuga (POTTHAST, 1914), synonym of **LIMNOPHYES minimus** (MEIGEN, 1818): See note on *Hydrobaenus distylus* (Potthast, 1914).

foliaceus (KIEFFER, 1921: 797), synonym of **CAMPTOCLADIUS stercorarius** (DE GEER, 1776): The name "*Psectrocladius foliaceus*" was included twice in the Palaearctic Catalogue (Ashe & Cranston 1990): firstly and correctly on page 163 as a synonym of *Camptocladius stercorarius* (De Geer), and secondly and wrongly on page 229 as a valid species name in *Smittia*.

foliaceus KIEFFER, 1921: 789, **Nomina dubia in ORTHOCLADIINAE**: The name *Camptocladius foliaceus* Kieffer, 1921: 789, is missing from the Palaearctic Catalogue (Ashe & Cranston 1990). The original description of an adult female does not suffice to recognize the genus or species at this time, and the type-material is apparently lost (Martin Spies pers. comm to P. Ashe). Therefore, the name is treated as a nomen dubium in Orthocladiinae.

foliata (KIEFFER, 1906), **Nomina dubia probably in SMITTIA**: The name *Camptocladius*

foliatus was listed in the Palaearctic Catalogue (Ashe & Cranston 1990: 227) as a questionable synonym of *Smittia aterrima* (Meigen, 1818). However, the original description of an adult female suggests a member of the *Smittia pratorum* group sensu Moller Pillot (2008). With the type-material lost the species cannot be determined at this time (Martin Spies pers. comm. to P. Ashe). Therefore, the name is treated as a nomen dubium in *Smittia*.

foliosa (KIEFFER, 1921), **SMITTIA**: In the Palaearctic Catalogue (Ashe & Cranston 1990: 229) the name *Psectrocladius foliaceus* Kieffer, 1921 was treated as the basis for a valid species name in *Smittia* (i.e., *S. foliacea*). However, this was incorrect, because *Psectrocladius foliaceus* was also included elsewhere (page 163) as a junior synonym of *Camptocladius stercorarius* (De Geer). The valid species name for the species incorrectly listed as "*S. foliacea*" is *Smittia foliosa* (Kieffer in Thienemann, 1921), which was listed in Ashe & Cranston (1990: 229) as a junior synonym of the former. The distribution data previously listed for "*S. foliacea*" now applies to *S. foliosa*.

fontinalis (CHERNOVSKII, 1949), questionable synonym of **ZALUTSCHIA tornetraeskensis** (EDWARDS, 1941): The description of *fontinalis*, in a key, begins on page 148 but the taxon is only formally named on page 149 and the latter is therefore considered to be the correct page to cite.

fontium KIEFFER, 1924, synonym of **ORTHOCLADIUS (EUDACTYLOCLADIUS) fuscimanus** KIEFFER, 1908: The name "*Dactylocladius fontium*" is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 203 as a synonym of *Orthocladius* (*Eudactylocladius*) *fuscimanus* and secondly and wrongly on page 243 as a nomen dubium in Orthocladiinae.

forficata ANDERSEN, 1997, **DIPLOSMITTIA**: The description of *Diplosmittia forficata* was almost certainly published in 1997 and not 1996 – see note in the Bibliography under Andersen (1997).

formosae KIEFFER, 1923, **PSECTROCLADIUS (PSECTROCLADIUS)**:: The correct year of the description of *Psectrocladius formosae* is 1923 and not 1922 as

given in the Oriental Catalog (Sublette & Sublette 1965: 399).

formosanus KIEFFER, 1923, **Generically Unplaced Valid ORTHOCLADIINAE**: The correct year of the description of *Camptocladius formosanus* is 1923 and not 1922 as given in the Oriental Catalog (Sublette & Sublette 1965: 401).

frigidus (ZETTERSTEDT, 1838), **ORTHOCLADIUS** (**MESORTHOCLADIUS**): The correct page on which the species *frigidus* is described is page 812 and not 811 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 205).

fujidecimus (SASA, 1985), **BRYOPHAENOCLADIUS**: The species *fujidecimus* does not belongs in *Limnophyes* but possibly in *Bryophaenocladius* or to an unnamed genus according to Sæther (1990: 130).

fulvonotatus KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: *Camptocladius fulvonotatus* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

fulvus KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: The name *Camptocladius fulvus* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

funebris (GOETGHEBUER, 1919), synonym of **ACRICOTOPUS lucens** (ZETTERSTEDT, 1850): The name *Trichocladius funebris* was first proposed based on the immature stages in Goetghebuer (1919) before the adult was described in Goetghebuer (1921) – see Spies & Sæther (2004: 10-11).

furcatus (KIEFFER, 1916), **BRYOPHAENOCLADIUS**: In order to maintain nomenclatural stability for this horticultural pest the widely used name *B. furcatus* has been given precedence by selecting the lectotype of *B. virgo* as the neotype of *B. furcatus* (Cranston 1987: 662, 664).

furtivus (SANTOS-ABREU, 1918), synonym of **HALOCLADIUS** (**HALOCLADIUS**) **millenarius** (SANTOS-ABREU, 1918): The name *furtivus*, originally described as one of five varieties of *millenarius*, is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

fuscipropes SÆTHER & WANG, 1993, **EURYHAPSIS**: The species *E. fusciprope*s was described in 1993 and not in 1992 – see note in the Bibliography under Sæther

& Wang (1993).

fuscitheca BHATTACHARYA, DUTTA & CHAUDHURI, 1986, **THIENEMANNIA**: The paper in which *T. fuscitheca* was described was published in 1986 and not 1985 – see note under Bhattacharya, Dutta & Chaudhuri (1986) in the Bibliography.

fuscithorax (KIEFFER, 1913), synonym of **RHEOCRICOTOPUS** (**RHEOCRICOTOPUS**) **fuscipes** (KIEFFER, 1909): The type-locality ("île de Rügen") given in Kieffer (1913) is correct whereas the locality ("im Schlamm der Glinde bei Niedermarsberg") for the earlier use of the name in Thienemann (1912) is incorrect (Martin Spies pers. comm. to P. Ashe).

fuscithorax (THIENEMANN, 1912), synonym of **RHEOCRICOTOPUS** (**RHEOCRICOTOPUS**) **fuscipes** (KIEFFER, 1909): See note above on *fuscithorax* (Kieffer, 1913).

fuscus (JOHANNSEN, 1903), synonym of **CARDIOCLADIUS obscurus** (JOHANNSEN, 1903): The correct page on which *Thalassomyia fusca* is named is page 400 and not page 437 as given in the Nearctic Catalog (Oliver, Dillon & Cranston, 1990: 21).

gayi SERRA-TOSIO, 1984, **PARATRICHOCLADIUS**: The pagination of the paper by Serra-Tosio (1984) is in roman numerals and the description of *P. gayi* begins on page XIV.

geminatus (SAY, 1823), **Nomina dubia in CRICOTOPUS**: Boesel (1983: 75) says that *Cricotopus geminatus* (Say) is not treated as a valid species since it "lacks the support of any solid records". The name is therefore treated here as a nomen dubium in *Cricotopus*.

glacialis KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: The description of *Trichocladius glacialis* begins on page 18 and not on page 19 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 243).

glacialis (KIEFFER, 1926), **Nomina dubia in SMITTIA**: The correct page of the description is 86 and not 85 as given in Oliver *et al.* (1990: 40). The type-material is lost and the name is treated as a nomen dubium in *Smittia* (Sæther *et al.* 1984: 273).

globifer (LUNDSTRÖM, 1915), synonym of **LIMNOPHYES pumilio** (HOLMGREN, 1869): The correct page of the description of *Camptocladius globifer* is 16 and not 15 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 194).

gracillima (KIEFFER, 1922), **PARAKIEFFERIELLA**: *Camptocladius gracillimus* was first proposed in a key to European *Camptocladius* species by Kieffer (1922). The name *gracillima* was included in two different places in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 210 as a valid species of *Parakiefferiella* and secondly and incorrectly as *gracillimus* on page 243 as a nomen dubium in Orthocladiinae.

griseipennis (KIEFFER, 1923), **Nomina dubia probably in ORTHOCLADIUS (POGONOCLADIUS)**: According to Cranston (1999: 292), based on a re-examination of two syntypes (one male, one female), it perhaps belongs in *Orthocladius* (*Pogonocladius*).

guineensis (KIEFFER, 1918), **Nomina dubia in ORTHOCLADIINAE**: The name *Trichocladius guineensis* is missing from the Afrotropical Catalogue (Freeman & Cranston 1980). However, it is mentioned in Freeman (1956: 316) who says that the type (an adult female) is lost and therefore it is listed here as a nomen dubium in Orthocladiinae.

gunmatertia (SASA, 1996), **CHAETOCLADIUS (CHAETOCLADIUS)**: In the original description there are two different spellings of the name, as *gunmatertia* on page 87 and on page 89 (List of Figures) and as *gunmagrandis* on page 91 (Fig. 3 of Plate G 2). The spelling *gunmatertia* it is regarded as the correct original spelling because it is used twice in the publication by Sasa (1996).

GYMNOMETRIOCNEMUS EDWARDS, 1932: Spies & Sæther (2004: 22-23) have shown that the genus-group name *Gymnometriocnemus* is a valid available name that is attributable to Edwards (1932: 141) because he described it by inference (reference to Goetghebuer, 1932) and designated an eligible type-species.

halobius KIEFFER, 1925, questionable synonym of **CRICOTOPUS (ISOCLADIUS) ornatus** (MEIGEN, 1818): The Swedish type-locality for *Cricotopus halobius*

given in Kieffer (1925) is incorrect but the correct type-locality (from Germany) is specified in Thienemann (1926).

harnischi KIEFFER, 1924, **Nomina dubia in ORTHOCLADIINAE**: A type-locality for *harnischi* is not specified in the description on page 65. However, since it was named after Otto Harnisch it must have been collected by him at the locality specified on page 11 of the introduction, i.e. [Poland] "en Silésie, sur un haut plateau tourbeux, nommé Seefelder" [= in Silesia, on a highland moor, named Seefelder].

hepaticus PANKRATOVA, 1972, **Unavailable names in ORTHOCLADIINAE**: The name *hepaticus* Pankratova is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

heptatomus KIEFFER, 1915, **Nomina dubia probably in ORTHOCLADIUS (EUDACTYLOCLADIUS)**: The name *heptatomus* was included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 204 as a nomen dubium probably in *Orthocladius* (*Eudactylocladius*) and secondly and incorrectly on page 244 as a nomen dubium in Orthocladiinae.

heptatomus KIEFFER, 1921, **Nomina dubia in ORTHOCLADIINAE**: The correct ending of the name is *heptatomus* and not *heptatoma* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 244).

heterocerus KIEFFER, 1908, **TRISSOCLADIUS**: *Trissocladius heterocerus* was described on page 5 as a species and not on page 4 or "as var. of *brevipalpis*" as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 236).

heteropterus KIEFFER, 1911, **Generically Unplaced Valid ORTHOCLADIINAE**: The genus *Dolichocladius* is inadequately described and characterised and may be a synonym of an existing genus and it is therefore best treated as a nomen dubium. The type-species, *D. heteropterus*, is treated as a valid but generically unplaced species in the Orthocladiinae.

HETEROTANYTARSUS SPÄRCK, 1923: The genus *Heterotanytarsus* is named on page 92 and not on page 88 as given in the Palaearctic Catalogue (Ashe & Cranston

1990: 190).

hexalobus (KIEFFER, 1924), **Nomina dubia in PSEUDOSMITTIA**: Sæther & Ferrington (2003: 5) treat *Camptocladius hexalobus* as a nomen dubium in *Pseudosmittia* but indicate that it is a likely senior synonym of either *P. trilobata* (Edwaeds) or *P. obtusa* Strenzke.

hexatomus (KIEFFER, 1921), synonym of **LIMNOPHYES minimus** (MEIGEN, 1818): The description of *Camptocladius hexatomus* Kieffer, 1921, is apparently a repeat description of *Camptocladius hexatomus* Kieffer, 1915, even though the type-localities of the two do not match. Differences in character states between the two adult female descriptions are negligible (Martin Spies pers. comm. to P. Ashe). The name *Camptocladius hexatomus* Kieffer, 1921, is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

hexatomus (POTTHAST, 1914), synonym of **LIMNOPHYES minimus** (MEIGEN, 1818): See note on *Hydrobaenus distylus* (Potthast, 1914).

hiberna POLISHCHUK, 1972, **Nomina dubia in ORTHOCLADIINAE**: The description of *Limnophyes hiberna* in Polishchuk (1972), based on the larval stage only, is regarded as a nomen dubium. Additional details, including figures of *L. hiberna*, are included in Polishchuk (1974).

himalayensis CHAUDHURI & SINHARAY, 1983, **RHEOCRICOTOPUS (PSILOCRICOTOPUS)**: The species *himalayensis* was included in the subgenus *Psilocricotopus* of the genus *Rheocricotopus* in Bhattacharyay, Ali & Chaudhuri (1991).

hirtellus GOETGHEBUER, 1919, **Nomina dubia in METRIOCNEMUS**: The name *Metriocnemus hirtellus* was first proposed based on the immature stages in Goetghebuer (1919) before the adult was described in Goetghebuer (1921) – see Spies & Sæther (2004: 10-11).

hirtellus GOETGHEBUER, 1921, **Nomina dubia in METRIOCNEMUS**: The description, in a key, begins on page 79 but the name *hirtellus* is first mentioned on page 80. Page 80 is therefore considered to be the correct page to cite.

hirticercus KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: The name *Camptocladius hirticercus* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

hockaiensis GOETGHEBUER, 1933, **Nomina dubia in ORTHOCLADIINAE**: The correct year of publication of the paper which includes the description of *hockaiensis* is 1933 and not 1932 – see Bibliography under Goetghebuer (1933).

hoegeni KIEFFER, 1918, **Nomina dubia in SMITTIA**: The correct page of the description of *hoegeni* is 79 and not 77 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 230).

humphriesiae DOWLING & MURRAY, 1980, **ZALUTSCHIA**: The correct original spelling is *humphriesiae* and not *humphresiae* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 237).

HYDROBAENINAE TOWNES, 1945: Junior synonym of Orthocladiinae Kieffer, 1911. See comments in Ashe (1983: 5) concerning the use of the subfamily name Hydrobaeninae by Townes (1945).

hygropetricus KIEFFER, 1912, synonym of **METRIOCNEMUS** (**METRIOCNEMUS**) **eurynotus** (HOLMGREN, 1883): According the Martin Spies (pers. comm. to P. Ashe) the Thienemann documents in the Zoologische Staatssammlung (Munich) show that Kieffer saw adult material from several widely separated localities some of which are mentioned in Thienemann (1912). Until investigated further it is not possible at present to include a list of all type-localities where *M. hygropetricus* was found.

impensus subsp. **croceus** CHAUDHURI & BHATTACHARYAY, 1989, **PARAPHAENOCLADIUS**: Two new *Paraphaenocladius* species, *croceus* and *distinctus*, described in Chaudhuri, Bhattacharyay & Dhutta (1989) are synonyms of one another and both were treathed as junior synonyms of *P. impensus* subsp. *albusalatus* in Sæther and Wang (1995: 59-60) who examined the holotypes. However, it is demonstrated here that the paper by Chaudhuri & Sinharay (1989), in which *albusalatus* was described, was published in

November 1989 and not in 1987 – see note in the Bibliography under this reference. The paper by Chaudhuri, Bhattacharyay & Dhutta (1989) was published some months earlier on the 1 June 1989 and consequently both *croceus* and *distinctus* have seniority over *albusalatus*. The name *croceus* is selected here as the valid subspecies name to replace *albusalatus* which becomes a **syn. nov.** of the former.

incerta (BECHER, 1886), questionable synonym of **SMITTIA extrema** (HOLMGREN, 1869): The name is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 228 as a questionable synonym of *Smittia extrema* (Holmgren, 1869) and secondly and incorrectly on page 317 as a nomen dubium in Chironomini.

inconstans (BRUNDIN, 1947), **BRYOPHAENOCLADIUS**: Records of *B. inconstans*, *B. propinquus* and *B. scanicus* from the Russian Far East in Du, Wang & Sæther (2011) are incorrect (Dr E. Makarchenko pers. comm. to P. Ashe).

insulatus (BHATTACHARYAY & CHAUDHURI, 1988), **PARACRICOTOPUS**: The original placement of *insulatus* in *Nanocladius* (*Nanocladius*) is incorrect. According to Prof. O. A. Sæther (pers. comm. to P. Ashe) the original description and figures indicates that it is better placed in *Paracricotopus* where it is tentatively assigned pending re-examination of the type material. See note in the Bibliography under Bhattacharyay & Chaudhuri (1988) concerning the publication date.

intersectus (STAEGER, 1839), **CRICOTOPUS (ISOCLADIUS)**: *Cricotopus* (*Isocladius*) *intersectus* (Staeger, 1839), was originally published as *Chironomus intersectus*, which is a junior primary homonym of *Chironomus intersectus* Meigen, 1838. Zetterstedt (1850) therefore proposed the substitute name *Chironomus incisuratus*. However, neither *C. intersectus* Meigen nor *C. incisuratus* Zetterstedt have been used as valid during the past 100 years, whereas *Cricotopus intersectus* (Staeger) has been used frequently and widely. Consequently, *Cricotopus* (*Isocladius*) *intersectus* (Staeger) is maintained as

valid here in accordance with Code Article 23.2 (ICZN, 1999 4th Edition).

ioergenseni KIEFFER, 1910, questionable synonym of **lateralis** WALKER, 1837, **Generically Unplaced Valid ORTHOCLADIINAE**: In the Neotropical Catalog (Spies & Reiss 1996: 78) *Diplocladius ioergenseni* is listed as a nomen dubium in the Orthocladiinae and incorrectly dated as 1909. The correct year of publication is 1910 (see Bibliography) and we follow Edwards (1931: 277, as *jörgenseni*) and treat *Diplocladius ioergenseni* as a questionable junior synonym of *lateralis* Walker, a generically unplaced valid species of Orthocladiinae.

ishimicus CHERNOVSKII, 1949, questionable synonym of **PSECTROCLADIUS (PSECTROCLADIUS) barbimanus** (EDWARDS, 1929): The type-locality data is derived from the label on the slide of the type specimen (Dr Andrey Przhiboro pers. comm to P. Ashe).

italicus (KIEFFER, 1922), **Nomina dubia in LIMNOPHYES**: *Camptocladius italicus* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

jantschilicola LIPINA, 1949, **Unavailable names in ORTHOCLADIINAE**: The name *jantschilicola* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

jintuseptdecima (SASA, 1996), **TOKUNAGAIA**: The original spelling of the name in Sasa (1996) is *jintuseptdecimus*; the ending changes (*jintuseptdecima*) when the name is combined with *Tokunagaia*. The original spelling was emended further to *jintuseptidecima* in Yamamoto (2004: 105), but according to the ICZN Code this emendation was unjustified. Consequently, *Tokunagaia jintuseptdecima* is the valid name and spelling at this time.

johannseni (SUBLETTE, 1967), synonym of **HYDROBAENUS nivoriundus** (JOHANNSEN, 1934): See note on *H. nivoriundus*.

kadamtullaensis MAHESHWARI & MAHESHWARI, 2002, **Generically Unplaced Valid ORTHOCLADIINAE**: The status and generic placement of this species, originally described as *Lindebergia kadamtullaensis*, is unresolved and it does not belong in *Allocladius* Kieffer with which *Lindebergia* Tuiskunen has

recently been synonymized. The type specimens will need to be re-examined to determine its correct generic placement and the species is therefore treated here as a generically unplaced valid Orthocladiinae. The paper describing *L. kadamtullaensis* was published in 2002 – see note under Maheshwari & Maheshwari (2002) in the Bibliography.

KARELIA CHERNOVSKII, 1939, synonym of **ZALUTSCHIA** LIPINA, 1939: The paper in which *Karelia* is named was published in 1939 and not 1938 – see note under Chernovskii (1939) in the Bibliography.

karicus CHERNOVSKII, 1949, **Nomina dubia in ORTHOCLADIINAE**: The species is cited as "*karicus* Birula" which is incorrect because Chernovskii (1949) created the name. Although Birula (1934) described a larva, which was assigned to the genus *Clunio*, he did not give it a Latin species name.

kiefferulus GOETGHEBUER, 1942, **Nomina dubia in ORTHOCLADIINAE**: The variant original spellings *Orthocladius* (*Eudactylocladius*) *kiefferulus* and *O.* (*E.*) *kiefferiellus* were proposed for a single taxonomic species in two successive instalments of *Die Fliegen der Palaearktischen Region*, part 13g. The epithet was first spelled "*Kiefferulus*" in a key on page 64 in the instalment published in 1942; the description section corresponding to the same species, but with the epithet spelled "*Kiefferiellus*", appeared on page 68 in a subsequent instalment published in 1943.

korbuicola LIPINA, 1949, **Unavailable names in ORTHOCLADIINAE**: The name *korbuicola* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

kribiensis (KIEFFER, 1923), questionable synonym of **CRICOTOPUS (CRICOTOPUS) albitibia** (WALKER, 1848): The name *Trichocladius kribiensis* is missing from the Afrotropical Catalogue of Freeman & Cranston (1980) but is given as a questionable synonym of *Cricotopus albitibia* in Freeman (1956: 306).

KRIBIOCLADIUS KIEFFER, 1923: The generic name *Kribiocladius* is listed as a questionable synonym of *Thienemanniella* in Freeman & Cranston (1980: 186). In the original description of *Kribiocladius* the first line of the species

description begins "*T. flava*" ["*T.*" = *Thienemanniella*] rather than "*K. flavus*" and it appears that Kieffer originally intended to describe the species in *Thienemanniella*. In *flava*, the eyes are described as pubescens which is the condition in many *Thienemanniella* species but in two related genera *Corynoneura* and *Corynoneurella* the eyes are bare. For the above reasons we therefore formally synonymize *Kribiocladius* with *Thienemanniella*.

kurobeokasia SASA & OKAZAWA, 1992, synonym of **HYDROSMITTIA oxoniana** (EDWARDS, 1922): In the original description there are two different spellings of the name, as *kurobeokasia* on pages 41 and 57, and as *kurobaokasia* on pages 72 and 80. Since the species is named after the Kurobe River the correct spelling is *kurobeokasia*.

lacroixi KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: In the second description in Kieffer (1922) the species is mentioned in the introduction on page 26 as "*C. Lacroixi* n. sp." and the adult female is keyed, with diagnostic characters, on page 36.

lacteolus GOETGHEBUER, 1921, **METRIOCNEMUS** (**METRIOCNEMUS**): The description, in a key, begins on page 80 but the species name *lacteolus* is first mentioned on page 81. Page 81 is considered to be the correct page to cite.

lacunarum GOETGHEBUER, 1932, **Nomina dubia in ORTHOCLADIINAE**: The correct year of publication of the paper which includes the description of *lacunarum* is 1932 and not 1931 – see Bibliography under Goetghebuer (1932).

lacustris KIEFFER, 1916, synonym of **CRICOTOPUS** (**CRICOTOPUS**) **festivellus** (KIEFFER, 1906): The name *Trichocladius lacustris* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

lambertoni (POTTHAST, 1914), synonym of **CRICOTOPUS** (**CRICOTOPUS**) **algarum** (KIEFFER, 1911): See note on *Hydrobaenus distylus* (Potthast, 1914).

lanceolatus SINHARAY & CHAUDHURI, 1985, **NASUTICLADIUS**: The description of *N. lanceolatus* was published in 1985 and not 1984 – see note under Sinharay & Chaudhuri (1985) in the Bibliography.

lapponicus GOETGHEBUER, 1940, **ORTHOCLADIUS** (**ORTHOCLADIUS**): The name *lapponicus* is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 205 as a valid species of *Orthocladius* (*Orthocladius*) and secondly and wrongly on page 245 as a nomen dubium in Orthocladiinae.

lebetis SUBLETTE, 1964, **CRICOTOPUS** (**ISOCLADIUS**): The name *C.* (*I.*) *lebetis* was treated as a synonym of *C.* (*I.*) *tricinctus* (Meigen) in the Nearctic Catalog (Oliver *et al.* 1990) but was redescribed and treated as a valid species in Epler *et al.* (2000).

lemnae FRAUENFELD & SCHINER, 1867, synonym of **CORYNONEURA scutellata** WINNERTZ, 1846: The authorship of the species must be credited to both Frauenfeld and Schiner because the paper contains descriptions of the larva and pupa by Frauenfeld and the adult by Schiner (Martin Spies pers. comm. to P. Ashe). In addition, at the bottom of p. 972, Frauenfeld wrote that he had carried the sample containing the new *Corynoneura* species home for study, with the verb "tragen" suggesting that he had done so on foot. Since Frauenfeld home was in Vienna, Austria (where he lived and worked) this is regarded as the type-locality.The paper by Frauenfeld was published in 1867 and not 1866 – see note under Frauenfeld (1867) in the Bibliography.

leucolabis KIEFFER, 1915, **Nomina dubia probably in ORTHOCLADIUS** (**EUDACTYLOCLADIUS**): The name "*Dactylocladius leucolabis*" was included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 204 as a nomen dubium probably in *Orthocladius* (*Eudactylocladius*) and secondly and incorrectly on page 245 as a nomen dubium in Orthocladiinae.

lignicola KIEFFER, 1914, **ORTHOCLADIUS** (**SYMPOSIOCLADIUS**): The species *O.* (*S.*) *lignicola* was first described by Kieffer in a preprinted separate of Potthast (1914) which was published in the year prior to the journal version in 1915 – see note on Potthast (1914) in the Bibliography.

limnobius KIEFFER, 1916, questionable synonym of **CRICOTOPUS (ISOCLADIUS) sylvestris** (FABRICIUS, 1794): The correct year of description of *limnobius* is 1916 and not 1915 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 180).

litigiosus KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: In the Palaearctic Catalogue (Ashe & Cranston 1990: 245) it was listed as "*ligitiosus*" which is an incorrect variant original spelling – the correct spelling is *litigiosus*.

litoris KIEFFER, 1924, **Nomina dubia in ORTHOCLADIINAE**: See note on *Corynoneura marina* Kieffer, 1924.

litorosus (SANTOS-ABREU, 1918), synonym of **HALOCLADIUS (HALOCLADIUS) millenarius** (SANTOS-ABREU, 1918): The name *litorosus*, originally described as one of five varieties of *millenarius*, is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

littorella GOETGHEBUER, 1927, **Nomina dubia probably in SMITTIA**: The name was included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 230 sub "*littorella* (GOETGHEBUER, 1927)" as a nomen dubium probably in *Smittia* and secondly and incorrectly as "*littorellus* GOETGHEBUER, 1926" on page 245 as a nomen dubium in Orthocladiinae. The correct year of publication of the original description is 1927 and not 1926.

LJUNGNERIA BRUNDIN, 1964, **Unavailable names in ORTHOCLADIINAE**: The correct year of publication of *Ljungneria* and the two included species (*maorii* Brundin and *patagonica* Brundin) is 1964 and not 1963 – see Brundin (1964) in the Bibliography. Although the generic name is a nomen nudum both *maorii* and *patagonica* are treated as generically unplaced valid species of Orthocladiinae.

lobata (KIEFFER, 1916), synonym of **THIENEMANNIA gracilis** KIEFFER, 1909: The description of *lobata* begins on page 513 and not on page 514 as given in Ashe & Cranston (1990: 233).

lobiger (FREEMAN, 1953), **SYNORTHOCLADIUS**: Based on the original description and figure of *Pseudorthocladius lobiger* in Freeman (1953) the adult male lacks an

anal point and has a tongue-shaped inferior volsella and may not belong in *Synorthocladius* but is tentatively retained in the latter genus until the type-material can be re-examined (Liu & Wang, 2005: 57-58).

lobuliferus GOETGHEBUER & TIMON-DAVID, 1939, **Nomina dubia in ORTHOCLADIINAE**: The original spelling, in the binominal combination *Orthocladius lobulifera*, must be corrected to *O. lobuliferus*. Authorship of the name must be Goetghebuer & Timon-David because there is no statement in the paper indicating that Goetghebuer is the sole author.

longicalcar KIEFFER, 1911, **Nomina dubia in EUKIEFFERIELLA**: The name *E. longicalcar* (Kieffer) is regarded as a nomen dubium for the reasons detailed in Spies & Sæther (2004: 22).

longicosta OLIVER, 1985, **IRISOBRILLIA**: The record and description of "*Eurycnemus* sp." from St. Vincent in Sæther (1981) is a mis-identification and has since been included as a synonym of *Irisobrillia longicosta* in Andersen & Mendes (2004).

longicostalis (EDWARDS, 1931), **GYMNOMETRIOCNEMUS** (**GYMNOMETRIOCNEMUS**): The two species *Metriocnemus longicostalis* and *M. ancudensis* Edwards, previously treated as valid generically unplaced Orthocladiinae, were included in *Gymnometriocnemus* in an unpublished list of type material in The Natural History Museum (London) (Spies & Reiss 1996: 91). Re-examination of the description of *M. longicostalis* and comparing it with the diagnoses for *Metriocnemus* and *Gymnometriocnemus* (in Cranston, Oliver & Sæther 1989) is particularily informative. The combination of: apex of antenna with several longish hairs, eyes without short wedge-shaped dorsomedial extension, acrostichal hairs apparently absent (probably present and not visible in pinned specimen), bare squama, almost the entire wing membrane densely hairy, and without distinct anal point (apparently absent) clearly indicates placement in *Gymnometriocnemus* and not *Metriocnemus*. In addition Edwards (1931: 274) states that *M. ancudensis* is allied to *M. longicostalis* and the latter "belongs to the same group as the British *M.*

subnudus, Edw., . . . other members [of the group] occurring in the Seychelles Is. and in New Zealand". The genus *Gymnometriocnemus* now includes *M. subnudus* as well as one Seychelles species (*G.* (*G.*) *mahensis* (Kieffer)) and one New Zealand species (*G.* (*G.*) *lobifer* (Freeman)). Based on the above data both *M. longicostalis* and *M. ancudensis* are transferred to *Gymnometriocnemus* (*Gymnometriocnemus*).

longifurca KIEFFER, 1921, **BRILLIA**: See note on *Brillia flavifrons* (Johannsen, 1905).

longimanus (KIEFFER, 1908), synonym of **ACRICOTOPUS lucens** (ZETTERSTEDT, 1850): In the original description of *longimanus* the only specified type-locality is "Greifswald" and not "near Greifswald, Koitenhagen" as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 159).

longipenis GHOSH & CHAUDHURI, 1984, **BRYOPHAENOCLADIUS**: The description of *B. longipenis* was published in 1984 and not 1983 – see note under Ghosh & Chaudhuri (1984) in the Bibliography.

longipennis (HOLMGREN, 1883), **METRIOCNEMUS** (**METRIOCNEMUS**): The name *Smittia longipennis* was treated as a nomen dubium in the Orthocladiinae in Ashe & Cranston (1990: 245) but was redescribed as a valid species of *Metriocnemus* in Sæther (1989: 421).

longiseta (THIENEMANN, 1919), **PARALIMNOPHYES**: First described by Thienemann (1919) as indicated in Spies & Sæther (2004: 26) and not in Thienemann (1921) as given in Ashe & Cranston (1990: 210).

longistilus (POTTHAST, 1914), questionable synonym of **CRICOTOPUS** (**CRICOTOPUS**) **fuscus** (KIEFFER, 1909): See note on *Hydrobaenus distylus* (Potthast, 1914).

luciae LESAGE & HARRISON, 1981, **CRICOTOPUS** (**CRICOTOPUS**): The species was described in 1981 and not 1980 — see note under LeSage & Harrison (1981) in the Bibliography. In the Nearctic Catalog (Oliver, Dillon & Cranston 1990: 23) the authority for the species is given as "*luciae* LeSage in LeSage & Harrison". However, in the original description by LeSage & Harrison (1980) there is no indication that LeSage is the sole author and in the adult keys to

males and females the species is referred to as "*C. luciae* LeSage & Harrison".

lunzensis (THIENEMANN, 1944), **HYDROBAENUS**: The species was described first in Gowin & Thienemann (1942), but in that work the species name was not presented in unambiguous combination with a single genus name, thus constitutes a nomen nudum (Spies & Sæther 2004: 23). However, the name *Diplocladius lunzensis* is available from Thienemann (1944), as all requirements of the ICZN Code are met by the diagnosis in the larval key up to and on p. 638.

lutea BHATTACHARYA, DUTTA & CHAUDHURI, 1986, **THIENEMANNIA**: The paper in which *T. lutea* was described was published in 1986 and not 1985 – see note under Bhattacharya, Dutta & Chaudhuri (1986) in the Bibliography.

luteicornis (GOETGHEBUER in STRENZKE, 1941), **GEORTHOCLADIUS** (**GEORTHOCLADIUS**): Larvae were reported from four localities (p. 184 - one in Poland, two in Germany and one in Austria). However, the female adults, on which Goetghebuer based his description, were reared from the Plön (German) locality only. Therefore, the latter constitutes the type-locality. The type-locality data in the Palaearctic Catalogue (Ashe & Cranston 1990: 187) are incorrect because they refer to the Austrian locality from which only larvae were obtained.

luteolus GOETGHEBUER, 1921, **Nomina dubia in PSECTROCLADIUS**: The description, in a key, begins on page 101 but the name *luteolus* is first mentioned on page 102. Page 102 is therefore considered to be the correct page to cite.

luteus GOETGHEBUER, 1934, **Nomina dubia probably in ORTHOCLADIUS** (**ORTHOCLADIUS**): The name *luteus* is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 207 as a nomen dubium probably in *Orthocladius* (*Orthocladius*) and secondly and incorrectly on page 246 as a nomen dubium in Orthocladiinae.

macrobrachia EDWARDS, 1928, **PSEUDOSMITTIA**: The correct spelling of the species name is *macrobrachia* and not *macrobranchia* as given in Cranston and Martin

(1989: 262).

macrostomus SOPONIS, 1981, **PSEUDORTHOCLADIUS (PSEUDORTHOCLADIUS)**: The description of *P.* (*P.*) *macrostomus* was published in 1981 and not 1980 – see note under Soponis (1981) in the Bibliography.

maeaeri BRUNDIN 1949, **HETEROTRISSOCLADIUS**: The original spelling of the species is *Määri* which is not formed from a German word and it should have been corrected to *maari* and not *maeaeri*. However, the spelling *maeaeri* is in prevailing usage and is retained (Martin Spies pers. comm. to P. Ashe).

mahensis (KIEFFER, 1911), **SMITTIA**: The available male specimens are damaged (but have several distinctive features) and its queried placement in *Smittia* requires confirmation (Sæther 2004: 294). In the Afrotropical Catalogue (Freeman & Cranston, 1980: 186) it was placed in *Pseudosmittia*.

mallochi SUBLETTE, 1970, **Nomina dubia in THIENEMANNIELLA**: The name *T. mallochi* was described based on the adult female only and consequently was treated as a nomen dubium in *Thienemanniella* in Fu, Sæther & Wang (2010: *Zootaxa* **2431**: 3).

manifestus GHOSH & CHAUDHURI, 1984, **BRYOPHAENOCLADIUS**: The description of *B. manifestus* was published in 1984 and not 1983 – see note under Ghosh & Chaudhuri (1984) in the Bibliography.

manii (MAHESHWARI & MAHESHWARI, 2001), **PARALAUTERBORNIELLA**: See note on *Andamanus* Maheshwari & Maheshwari.

maorii BRUNDIN, 1964, **Generically Unplaced Valid ORTHOCLADIINAE**: See note on *Ljungneria* Brundin, 1964.

marina KIEFFER, 1924. **CORYNONEURA**: In the type-locality the Baltic Sea is specified but no country is identified. However, for another species, "*Psectrocladius versicolor* var. *marinus*", described on page 61 in the same publication the type-locality is given as "Holstein, voltigeant au bord de la mer Baltique". Therefore, for other species with a similarly phrased type-locality but lacking the word Holstein it can be assumed that the material was collected on the eastern (Baltic

Sea) coast of Schleswig-Holstein in Germany.

marinus HALIDAY, 1855, **CLUNIO**: *Clunio marinus* is widespread in Atlantic coastal areas of north-west Europe and probably occurs in the Mediterranean but we regard reports of the species from the Black Sea and Egypt (upper Red Sea) as doubtful and requiring investigation. There appear to be at least two distinct species in the Mediterranean. The species *C. mediterraneus* Neumann, 1971, is treated as valid but there are two older names from the Mediterranean Sea, *C. adriaticus* Schiner (1857) from Italy (Trieste) and *C. balearicus* Bezzi (1913) from the Balearic Islands, which are regarded as nomina dubia but either name could have priority over *C. mediterraneus*. See note on *Clunio ponticus* Michailova.

maritimus CHERNOVSKII, 1949, **Nomina dubia in ORTHOCLADIINAE**: The description of *maritimus*, in a key, begins on page 119 but the taxon is only formally named on page 120. Page 120 is therefore considered to be the correct page to cite.

maritimus (GOETGHEBUER & TIMON-DAVID, 1937), synonym of **HALOCLADIUS (HALOCLADIUS) millenarius** (SANTOS-ABREU, 1918): Authorship of the name must be Goetghebuer & Timon-David because there is no statement in the paper indicating that Goetghebuer is the sole author.

mediterraneus NEUMANN, 1971, **CLUNIO**: The species was first mentioned as "*Cl. mediterraneus* n. sp." in Neumann (1966: 3) and many sources accepted the name as available from that work. However, re-examination of the paper shows that no species description was given and the name in Neumann (1966) is a nomen nudum. The name, *C. mediterraneus*, was validated by Neumann (1971: 10) based on the following translated lines in the second last paragraph on page 10:- "The Rovinj strain, together with other Mediterranean populations (Marseilles and Banyuls-sur-Mere, France), was assigned to a new *Clunio* species, *C. mediterraneus* (Neumann, 1966). Morphologically the Mediterranean species can be distinguished from *C. marinus* unambiguously by means of the pattern of intersegmental spinule rows of the pupal exuviae (Neumann, unpubl.)". According to Martin Spies (pers. comm. to P. Ashe) the

last sentence quoted above mentions only a character, not a character state (or pair of mutually exclusive states), but nevertheless contains all elements necessary to satisfy Article (13.1.1) of the ICZN (1999) Code's conditions for availability. In a later paper Neumann *et al.* (1997) provided diagnostic character states of the pupal stage (including illustrations) to distinguish *C. mediterraneus* from *C. marinus*. See note on *Clunio marinus* Haliday.

medius CHERNOVSKII, 1949, questionable synonym of **PSECTROCLADIUS** (**PSECTROCLADIUS**) **simulans** (JOHANNSEN, 1937): The name *Psectrocladius medius* is described on page 112 and not on page 114 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 219).

melanopus KIEFFER, 1921, **Nomina dubia in ORTHOCLADIINAE**: The correct original spelling is *melanopus* and not *melanops* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 246).

melas PHILIPPI, 1866, questionable synonym of **lateralis** WALKER, 1837, **Generically Unplaced Valid ORTHOCLADIINAE**: Listed as a nomen dubium in the Orthocladiinae in the Neotropical Catalog (Spies & Reiss 1996: 78) but we follow Edwards (1931: 277) and treat *melas* Philippi as a questionable junior synonym of *lateralis* Walker, a generically unplaced valid species of Orthocladiinae. The year of publication of *C. melas* Philippi is changed from 1865 to 1866 – see note under Philippi (1866) in the Bibliography.

meridionalis GOETGHEBUER & TIMON-DAVID, 1939, **Nomina dubia in ORTHOCLADIINAE**: Authorship of the name must be Goetghebuer & Timon-David because there is no statement in the paper indicating that Goetghebuer is the sole author.

MESOPSECTROCLADIUS LAVILLE, 1972 (Subgenus of **PSECTROCLADIUS** KIEFFER, 1906): The publication in which *Mesopsectrocladius* was originally described was published in 1972 and not 1971 – see note under Laville (1972) in the Bibliography. The subgenus was listed as occurring in the Georgia in the Nearctic Region in Caldwell *et al.* (1997) but according to Dr Broughton

Caldwell (pers. comm. to P. Ashe) the record is doubtful and *Mesopsectrocladius* is not yet known from the Nearctic.

METRIOCNEMUS WULP, 1874: See note under *Camptocladius* Wulp, 1874.

micans KIEFFER, 1918, **Nomina dubia in ORTHOCLADIINAE**: The description of *micans* begins on page 122 and not on page 83 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 246).

microcladioides LIPINA, 1949, **Unavailable names in ORTHOCLADIINAE**: The name *microcladioides* Lipina is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

MICROCLADIUS KIEFFER, 1908, **Nomina dubia in ORTHOCLADIINAE**: The name "*Microcladius* n. g." appears only in a key and other than characters in the key a complete description was never given. No species were originally or subsequently included in this genus which is therefore regarded as a nomen dubium.

MICROCRICOTOPUS GOETGHEBUER, 1944, a synonym of **NANOCLADIUS** KIEFFER, 1913: The name *Microcricotopus* was validated by Goetghebuer's action (in Goetghebuer & Lenz 1944: 114) in designating a type-species.

micronesiana (TOKUNAGA, 1964), **PSEUDOSMITTIA**: The correct original spelling of the species is *micronesiana* and not *micronesia* as given in Cranston & Martin (1989: 262).

minima CURE, 1971, **Unavailable names in Orthocladiinae**: The name *minima* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

minuta WINNERTZ, 1846, **Nomina dubia in CORYNONEURA**: *Corynoneura minuta* is described on page 13 and not page 16 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 170).

minutissimus (GOETGHEBUER, 1942), **CHAETOCLADIUS** (**CHAETOCLADIUS**): The name *C. minutissimus* was originally described in *Orthocladius* (*Chaetocladius*) and not in *Chaetocladius* as given in Ashe & Cranston (1990: 165). In addition, the preoccupied name *Orthocladius* (*Chaetocladius*) *minutus* Goetghebuer was

listed in Ashe & Cranston (1990: 247) as a nomen dubium in Orthocladiinae instead of being inserted on page 165 as a synonym of its replacement name *C. minutissimus*.

minutus (GOETGHEBUER, 1934), synonym of **CHAETOCLADIUS (CHAETOCLADIUS) minutissimus** (GOETGHEBUER, 1942): See note above under *Chaetocladius* (*Chaetocladius*) *minutissimus* (GOETGHEBUER, 1942).

mirabilis SERRA-TOSIO, 1984, **EUKIEFFERIELLA**: The pagination of the paper by Serra-Tosio (1984) is in roman numerals and the description of *E. mirabilis* begins on page XVII.

miricornis (KIEFFER, 1911), synonym of **SYNORTHOCLADIUS semivirens** (KIEFFER, 1909): A characteristic feature of the anal lobe of the pupa of *S. semivirens* is three consecutively smaller anal macrosetae with the largest of these towards the inside of the anal lobe. The anal lobe of the pupa of *Dactylocladius miricornis* in Potthast (1914, 1915, Fig. 55) is identical to that found in *S. semivirens* except that the largest and innermost seta is lost in the illustrated specimen. The name *D. miricornis* is therefore a **syn. nov.** of *S. semivirens*.

missilus CHAUDHURI & SOM, 1999, **PARACRICOTOPUS**: The correct year of the description of *P. missilus* is 1999 and not 1998 – see note on Chaudhuri & Som (1999) in the Bibliography.

mitis CURRAN, 1930, **Nomina dubia in TANYTARSINI**: The taxon was originally described as *Metriocnemus mitis* in the Orthocladiinae but Sublette (1966: *Journal of the Kansas Entomological Society* **39**(1): 30), after a re-examination of the female type, treated it is a nomen dubium in *Tanytarsus* Wulp but we regard it as nomen dubium in Tanytarsini (Subfamily Chironominae). The species is missing from the Nearctic Catalog (Oliver, Dillon & Cranston 1990). Complete data on this name will be included in Part 3 of the World Catalogue.

mixtus (HOLMGREN, 1869), **Nomina dubia probably in ORTHOCLADIUS (ORTHOCLADIUS)**: According to Cranston (1999: 293), based on a re-

examination of the female holotype, it does not belong in *Orthocladius* (*Eudactylocladius*) but is probably an undetermined species of *Orthocladius* (*Orthocladius*).

montana SÆTHER, 1968, synonym of **DIPLOCLADIUS cultriger** KIEFFER, 1908: The name *montana* Sæther is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

montana (STRENZKE, 1950), **HYDROSMITTIA**: In Sæther & Ferrington (2003: 5) *montana* was elevated to a full species from its previous status as a subspecies of *virgo* Strenzke, 1950. Both species have since been transferred to *Hydrosmittia* (Ferrington & Sæther 2011).

montanus GOETGHEBUER, 1933, synonym of **LIMNOPHYES pentaplastus** (KIEFFER, 1921): The correct year of publication of the paper which includes the description of *montanus* is 1933 and not 1932 – see Bibliography under Goetghebuer (1933).

murgabicus SINYAGINA, 1958, **Nomina dubia in PSECTROCLADIUS**: The name *Psectrocladius murgabicus* is missing from the Palaearctic Catalogue (Ashe & Cranston, 1990).

murodoensis (SASA, 1993), **Nomina dubia in PARAPHAENOCLADIUS**: *Gymnometriocnemus murodoensis*, described based on adult females only, was transferred to *Paraphaenocladius* by Sæther & Wang (1995: 66) who state that it could conceivably be a synonym of *P. penerasus*. Treated here as a nomen dubium in *Paraphaenocladius*.

murphyi SCHAEFFER, 1914, **ERETMOPTERA**: According to Allegrucci *et al.* (2012) preliminary DNA analysis on *E. murphyi* indicates that it may belong in the genus *Belgica* but further work, both molecular and morphological, is required before any formal change in the status of the species can be made.

nagaokensis (TOKUNAGA, 1964), **TVETENIA**: The name *nagaokensis* is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990), on page 207 as a subgenerically unplaced valid species of *Orthocladius* and on page 247 as a

nomen dubium in Orthocladiinae. Since then the species has been recognised as a valid species in the genus *Tvetenia* (Yamamoto 2004).

nana SYCHEVA, 1955, **Nomina dubia probably in SMITTIA**: The name *Smittia nana* is missing from the Palaearctic Catalogue (Ashe & Cranston, 1990).

nanseni (KIEFFER, 1926), **ALLOCLADIUS**: Kieffer (1926) proposed the name *nanseni* for three different orthoclad species, i.e. *Orthocladius nanseni*, *Psectrocladius nanseni* and *Camptocladius nanseni*. In Sæther, Sublette & Willassen (1984) *Orthocladius nanseni* is treated as a junior synonym of *Orthocladius* (*Eudactylocladius*) *gelidorum* (Kieffer, 1923), *Psectrocladius nanseni* became *Prosmittia nanseni* and *Camptocladius nanseni* became *Smittia nanseni*. The data on the three names is accurate in Sæther, Sublette & Willassen (1984) but in some subsequent literature sources the names *Psectrocladius nanseni* and *Camptocladius nanseni* became confused with one another. Most recently, in Ferrington & Sæther (2011: 66), "*Camptocladius nanseni*" is listed as a comb. nov. to *Allocladius* but this is an error and the taxon that should have been transferred is "*Psectrocladius nanseni*" – however the examined type-material is from the correct type-locality for "*Psectrocladius nanseni*". The name "*Psectrocladius nanseni*" therefore becomes *Allocladius nanseni* **comb. nov**. See note on *Smittia nanseni* (Kieffer, 1926) below.

nanseni (KIEFFER, 1926), **Nomina dubia probably in SMITTIA**: The species *Camptocladius nanseni* was redescribed in *Smittia* by Sæther, Sublette & Willassen (1984: 262-263) but is only known from one male (which lacks the hypopygium) and two females and until more males are discovered to complete the description we treat it here as a nomen dubium in *Smittia*. In the Nearctic Catalog (Oliver, Dillon & Cranston 1990) "*Camptocladius nanseni*" is included twice, firstly and wrongly on page 37 in *Pseudosmittia* and secondly and correctly on page 38 in *Smittia*, but the Nearctic species "*Psectrocladius nanseni* Kieffer" is not included anywhere in their catalog. The name *Psectrocladius nanseni* should have been included on page 37 as a then valid

species of *Pseudosmittia* and this is the same species which now belongs in *Allocladius* – see note on *Allocladius nanseni* (Kieffer, 1926) above.

nanulus WULP, 1875, **Nomina dubia in ORTHOCLADIINAE**: The type-material of *Orthocladius nanulus* Wulp appears to be lost (M. Spies, pers. comm. to P. Ashe). Therefore, and in accordance with Spies (2007: 49), the name is treated as a nomen dubium in Orthocladiinae.

nerius (CURRAN, 1930), **COMPTEROSMITTIA**: Originally described as *Camptocladius nerius* but the ending of the species name remains unchanged. The distribution for Australasia and Oceania is queried because the synonymy between *nerius* and *claggi* is questionable. See note on *claggi* (Tokunaga, 1964).

niger (KIEFFER, 1913), **PARACRICOTOPUS**: The name *Cricotopus niger*, now in *Paracricotopus*, was first described by Kieffer (1913: 32) simultaneously with the description of a new variety, i.e. *niger* var. *muscicola*. *Cricotopus niger* was described a second time, as a new species, eight years later in Kieffer (1921: 801).

nigerrimus GOETGHEBUER, 1919, synonym of **TRISSOCLADIUS brevipalpis** KIEFFER, 1908: The name *Trissocladius nigerrimus* was first proposed based on the immature stages in Goetghebuer (1919) before the adult was described in Goetghebuer (1921) – see Spies & Sæther (2004: 10-11).

nigerrimus GOETGHEBUER, 1921, synonym of **TRISSOCLADIUS brevipalpis** KIEFFER, 1908: The description, in a key, begins on page 91 but the species name *nigerrimus* is first mentioned on page 92. Page 92 is therefore considered to be the correct page to cite.

nigra FREEMAN, 1956, synonym of **SMITTIA subnigra** FREEMAN, 1956: See note under *Smittia subnigra* Freeman.

nigripectus (BIGOT, 1888), **Nomina dubia in ORTHOCLADIINAE**: Originally described as *Camptocladius nigripectus* it was included among the nomina dubia in Chironomidae in the Neotropical Catalog (Spies & Reiss 1996: 83) but is included here as a nomen dubium in the Orthocladiinae.

nigriventris WULP, 1859, **Nomina dubia in ORTHOCLADIINAE**: The correct year of publication of the first description of *Chironomus nigriventris* Wulp is 1859 and not 1858.

NIKISMITTIA SASA, 1996, synonym of **PSEUDOSMITTIA** EDWARDS, 1932: All four species (*Pseudosmittia itachibifurca* Sasa & Kawai, 1987, *P. amamibifurca* Sasa, 1990, *P. hibarabifurca* Sasa, 1993 and *P. furudobifurca* Sasa & Arakawa, 1994) originally included in the subgenus *Nikismittia* (a nomen nudum because a type-species was not designated) are junior synonyms of *Pseudosmittia mathildae* Albu. Therefore, the name *Nikismittia* is a synonym of *Pseudosmittia* Edwards, 1932, as indicated in Sæther (2006: 24).

nivalis (GOETGHEBUER, 1938), **PARATRICHOCLADIUS**: The status of *P. nivalis* is uncertain as is treated by some authors as a synonym of *P. skirwithensis* and by others as a valid species. It is currently treated as a valid species in Fauna Europaea (Sæther & Spies 2011).

niveiforceps KIEFFER, 1924, **Nomina dubia probably in ORTHOCLADIUS (EUDACTYLOCLADIUS)**: The name *niveiforceps* is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 204 as a nomen dubium probably in *Orthocladius* (*Eudactylocladius*) and secondly and wrongly on page 247 as a nomen dubium in Orthocladiinae.

niveimanus (POTTHAST, 1914), synonym of **CRICOTOPUS (CRICOTOPUS) tremulus** (LINNAEUS, 1758): See note on *Hydrobaenus distylus* (Potthast, 1914).

nivoriundus (JOHANNSEN, 1934), **HYDROBAENUS**: Contrary to Sublette (1967: 504), the name *Orthocladius nivoriundus* is available from Johannsen (1934: 348), where it was proposed for the species described by Johannsen (1905: *Bulletin of the New York State Museum* **86**: 274-275) as "*Orthocladius nivoriundus* Fitch", a misidentification of *Diamesa nivoriunda* (Fitch). Johannsen's (1934) act did not involve any homonymy between *Chironomus nivoriundus* Fitch (from then on exclusively treated as a diamesine) and *Orthocladius nivoriundus* Johannsen (an orthoclad). Consequently, the replacement of *O. nivoriundus* Johannsen

with *O.* (*O.*) *johannseni* by Sublette, 1967 is unnecessary and invalid (Martin Spies pers. comm. to P. Ashe).

noctivagus KIEFFER, 1911, **Nomina dubia in ORTHOCLADIINAE**: The name *Dactylocladius noctivagus* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

novaesemliae (KIEFFER, 1922), **BRYOPHAENOCLADIUS**: The correct original spelling is *novaesemliae* and not *novosemliae* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 162).

nudipes (GOETGHEBUER, 1921), synonym of **PARATRICHOCLADIUS rufiventris** (MEIGEN, 1830): The description, in a key, begins on page 99 but the species name *nudipes* is first mentioned on page 100 which is therefore considered to be the correct page to cite.

nupharis KIEFFER, 1925, **Nomina dubia in CORYNONEURA**: According the Martin Spies (pers. comm. to P. Ashe) there are probably two German type-localities for *C. nupharis* and the latter may be a junior synonym of *C. celeripes* Winnertz but further investigation is required.

obicola LIPINA, 1949, **Unavailable names in ORTHOCLADIINAE**: The name *obicola* Lipina is missing from the Palaearctic Catalogue (Ashe & Cranston, 1990). It was originally included in the Diamesinae by Lipina (1949) but is included here in the Orthocladiinae and may belong in the genus *Propsilocerus*.

obumbratus JOHANNSEN, 1905, **ORTHOCLADIUS** (**ORTHOCLADIUS**): Published records of this species from Europe are regarded as doubtful and require further investigation because of possible confusion with related species – see comments in Spies & Sæther (2004: 24).

oceanicus (PACKARD, 1869), synonym of **HALOCLADIUS** (**HALOCLADIUS**) **variabilis** (STAEGER, 1839): *Chironomus oceanicus* was described simultaneously in two papers by Packard with identical publications dates determined as March 1869 by Caldwell (2009). Caldwell (2009: 208), acting as First Reviser under the Zoological Code, has fixed precedence of the species name to derive from

Packard (1869: *Comunications of the Essex Institute* **6**: 41-46).

ochraceus WULP, 1859, **Nomina dubia in ORTHOCLADIINAE**: The correct year of publication of the species description of *Chironomus ochraceus* Wulp is 1859 and not 1858.

octomaculatus WÜLKER, 1956, **PSECTROCLADIUS (PSECTROCLADIUS)**: In Wülker (1956) the type-locality for *P. octomaculatus* is not clearly specified but on page 16 it states that the holotype and paratypes are in the Falkau Collection. All the material of *P. octomaculatus* in the Falkau Collection is listed on page 48 and this is the basis of the type-locality data quoted under the species entry.

oligosetus WÜLKER, 1956, **PSECTROCLADIUS (PSECTROCLADIUS)**: In Wülker (1956) the type-locality for *P. oligosetus* is not clearly specified but on page 23 it states that the holotype and paratypes are in the Falkau Collection. All the material of *P. oligosetus* in the Falkau Collection is listed on page 51 and this is the basis of the type-locality data quoted under the species entry.

olivacea (KIEFFER, 1922), **Nomina dubia in SMITTIA**: *Camptocladius olivacea* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

olivaceus CURE, 1971, **Nomina dubia in ORTHOCLADIINAE**: The name *Trissocladius olivaceus* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

oppertus (WALKER, 1856), synonym of **PSECTROCLADIUS (ALLOPSECTROCLADIUS) obvius** (WALKER, 1856): The correct page number for *oppertus* is 183 and not 174 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 216).

ORTHOCLADIINAE KIEFFER, 1911: The family-group name Orthocladiinae Kieffer, 1911 and other family-group names based on *Orthocladius* Wulp, 1874 have precedence over Eretmopterinae Kellogg, 1900 (based on *Eretmoptera* Kellogg, 1900) and Clunioninae Kieffer, 1906 (based on *Clunio* Haliday, 1855) whenever the respective type-genera are placed in the same family-group taxon (International Commission on Zoological Nomenclature, 2008, Opinion 2206, *Bulletin of Zoological Nomenclature* **65**(3): 229-231).

ORTHOCLADIINI KIEFFER, 1911: See note above on Orthocladiinae Kieffer, 1911.

ORTHOCLADIUS WULP, 1874: See note under *Camptocladius* Wulp, 1874.

otujimaculata SASA & OKAZAWA, 1994, **HELENIELLA**: There are two different spellings of the species name in the original description, as *otujimaculata* on page 77 and as *otujisecunda* in the legend for Fig. 9 (Plate 6) on page 86. Yamamoto (2004: 39) has acted as the First Reviser in the sense of the Zoological Code (ICZN 1999, Article 24), thereby fixing *H. otujimaculata* as the valid name.

oxiana PANKRATOVA, 1950, **Nomina dubia in EUKIEFFERIELLA**: The correct original spelling of the name is *oxiana* and not *oxoniana* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 186).

ozhegovae AKHROROV, 1968, **Nomina dubia in ORTHOCLADIINAE**: The correct year of publication of the name *ozhegovae* is 1968 and not 1967 – see note under Akhrorov (1968) in the Bibliography.

PACHYCLADIUS KIEFFER, 1923, synonym of **CHAETOCLADIUS** KIEFFER, 1911: In Kieffer (1923: 143) *Pachycladius* is described as a subgenus of *Orthocladius*. The original type-species combination is now considered to be *Orthocladius* (*Pachycladius*) *ellipsoidalis* and not just *Pachycladius ellipsoidalis* as given in Ashe (1983: 38) and Ashe & Cranston (1990: 164).

pallidicollis (SANTOS-ABREU, 1918), synonym of **HALOCLADIUS** (**HALOCLADIUS**) **millenarius** (SANTOS-ABREU, 1918): The name *pallidicollis*, originally described as one of five varieties of *millenarius*, is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

palpideminutus MAKARCHENKO & MAKARCHENKO, 2002, **NANOCLADIUS** (**NANOCLADIUS**): The paper in which *N.* (*N.*) *palpideminutus* is described was published in 2002 and not 2001 – see note under Makarchenko, Zorina, Makarchenko & Sergeeva (2002) in the Bibliography.

paludicola (KIEFFER, 1925), **Nomina dubia in PSECTROCLADIUS**: The paper in which *Psectrocladius paludicola* was described by Kieffer was published in 1925 and

not in 1924 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 220).

paluster KIEFFER, 1925, **Nomina dubia in ORTHOCLADIINAE**: The paper in which *Camptocladius paluster* was described by Kieffer was published in 1925 and not in 1924 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 248).

paluster KIEFFER, 1925, **Nomina dubia in ORTHOCLADIINAE**: The paper in which *Orthocladius paluster* was described by Kieffer was published in 1925 and not in 1924 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 248).

PARAKIEFFERIELLA THIENEMANN, 1936: The first use of the name *Parakiefferiella* (in Thienemann, 1936: *Stettiner Entomologische Zeitung* **97**(1): 43) is a nomen nudum and predates the valid *Parakiefferiella* description (in Thienemann, 1936: *Archiv für Hydrobiologie* **30**(2): 198) by a few months.

paratatricus (CHERNOVSKII, 1949), synonym of **HETEROTRISSOCLADIUS subpilosus** (KIEFFER, 1911): Since 1975 *paratatrica* had been treated as a valid species of *Zalutschia* but has recently been shown to be a junior synonym of *H. subpilosus* by Przhiboro & Sæther (2008).

parimberbus WANG & DU, 2010, **BRYOPHAENOCLADIUS**: The species *B. parimberbus* is known from two Chinese provinces (Henan and Shaanxi) which are bisected by the boundary between the Palaearctic and Oriental Regions (see Fig. 4, China map). The Henan locality is in Palaearctic China whereas the Shaanxi locality is in Oriental China.

parvibarba EDWARDS, 1939, **LAPPOSMITTIA**: The correct original binomen is *Lapposmittia parvibarba* and not *Smittia parvibarba* as given in Ashe (1983: 31).

patagonica BRUNDIN, 1964, **Generically Unplaced Valid ORTHOCLADIINAE**: See note on *Ljungneria* Brundin, 1964.

paucunca (SÆTHER, 1969), **TVETENIA**: See notes on *Tvetenia bavarica* (Goetghebuer) and *Tvetenia calvescens* (Edwards).

penerasus (EDWARDS, 1929), **PARAPHAENOCLADIUS**: For *P. penerasus* part of the type-locality data, i.e. "Hertfordshire, Bricket Wood, Yorkshire (England)", as given in Ashe & Cranston (1990: 212) is incorrect.

pentachaetus (KIEFFER, 1923), synonym of **CHAETOCLADIUS** (**CHAETOCLADIUS**) **perennis** (MEIGEN, 1830): The original description of *Dactylocladius pentachaetus* is on page 141 and not on page 62 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 165).

pentatomus (KIEFFER, 1915), **Nomina dubia in LIMNOPHYES**: In the Palaearctic Catalogue (Ashe & Cranston 1990: 195) *Limnophyes pentatomus* (Kieffer, 1915) was treated as a valid species and *L. turfaceus* (Kieffer, 1925) as a synonym of the former. Neither name is mentioned in the revision of *Limnophyes* by Sæther (1990) and until their status is resolved both are treated as separate nomina dubia in *Limnophyes*.

perexilis (WALKER, 1856), **Nomina dubia in NANOCLADIUS** (**NANOCLADIUS**): The description of *Chironomus perexilis* was based on the adult female only and it is therefore treated as a nomen dubium in *Nanocladius* (*Nanocladius*) until its true status is resolved.

perfilievi (CHERNOVSKII, 1939), synonym of **ZALUTSCHIA zalutschicola** LIPINA, 1939: The paper in which *perfilievi* was described was published in 1939 and not 1938 – see note under Chernovskii (1939) in the Bibliography.

perniger (ZETTERSTEDT, 1850), **CRICOTOPUS** (**ISOCLADIUS**): The description of *C. perniger* begins on page 3524 and not on page 3523 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 178).

petraeus KIEFFER, 1919, **Nomina dubia in ORTHOCLADIINAE**: The name *Dactylocladius petraeus* was first described by Kieffer (1919: 117) simultaneously with the description of a new variety, i.e. *D. petraeus* var. *ursinus*.

petrophilus CRANSTON & EDWARD, 1999, **BOTRYOCLADIUS**: For the species *Botryocladius petrophilus* the following text in square brackets "[Olgas]" is part of the original type-locality data.

PHAENOCLADIUS KIEFFER, 1921: *Phaenocladius* "*foliatus* K." was designated as the type-species of *Phaenocladius* by Kieffer in Thienemann (1921: 845). The available name referred to there is *Camptocladius foliatus* Kieffer, 1906, but the original description of the latter differs significantly from the diagnosis of "*P. foliatus* (K.)" in Thienemann (1921). With its "narrowly lanceolate" antennal sensilla the species so described by Kieffer (1906) runs to "*P. foliosus*" rather than to "*P. foliatus*" in the key in Thienemann (1921). In the current system (e.g., Moller Pillot 2008), the corresponding sensilla shapes are ascribed to two different *Smittia* species groups. For these reasons, "*P. foliatus*" sensu Kieffer in Thienemann (1921) is considered here as a misidentification of *Camptocladius foliatus* Kieffer, 1906. The former is treated as conspecific with *S. aterrima* (Meigen), the latter as a nomen dubium in *Smittia* (see the respective catalogue entries).

Consequently, the type-species designations for *Phaenocladius* by Kieffer in Thienemann (1921) and for *Euphaenocladius* by Thienemann (1934) are found to constitute cases of misidentified type species in the sense of the ICZN (1999) Code. The respective type-species fixations enacted in the present catalogue part preserve nomenclatural stability by maintaining *Phaenocladius* Kieffer and *Euphaenocladius* Thienemann as objective synonyms due to identical type species, and both names as junior subjective synonyms of *Smittia* Holmgren.

picipes (MEIGEN, 1818), **METRIOCNEMUS** (**METRIOCNEMUS**): The original description of *M. picipes* is on page 52 of Meigen (1818) and not on page 50 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 199).

pictus (FREEMAN, 1959), **STICTOCLADIUS**: The description of *S. pictus* begins on page 416 and not page 417 as given in Cranston & Martin (1989: 263).

planus BOOTHROYD, 1990, **CRICOTOPUS** (**CRICOTOPUS**): All six named *Cricotopus* species known from New Zealand, including *C. planus* and *C. vincenti*, belong in *Cricotopus* s. str. (Boothroyd, 2002: 776).

plasensis STROBL, 1898, **Nomina dubia in ORTHOCLADIINAE**: *Chironomus plasensis* was described twice, firstly in Strobl (1898) and secondly in Strobl (1900), but only the second of these was cited in the Palaearctic Catalogue (Ashe & Cranston 1990: 247) where it was treated as a questionable synonym of *Chironomus minutus* Zetterstedt, 1850. Since *C. minutus* is itself a nomen dubium in the Orthocladiinae the questionable synonymy between *C. minutus* and *C. plasensis* is removed.

plasensis STROBL, 1900, **Nomina dubia in ORTHOCLADIINAE**: See previous note on *Chironomus plasensis* Strobl, 1898.

ploenensis (THIENEMANN, 1933), synonym of **LIMNOPHYES pumilio** (HOLMGREN, 1869): The authorship of the name *ploenensis* is credited to Thienemann and not Kieffer for the reasons given in Spies & Sæther (2004: 23).

ponticus MICHAILOVA, 1980, **CLUNIO**: In the Black Sea, *C. ponticus* Michailova (1980) is known from Bulgaria and the Ukraine but whether or not records of *C. marinus* from the coasts of Romania and Russia (Southern European Territory) are misidentifications of *C. ponticus* is unclear.

porteri BRÈTHES, 1913, **Nomina dubia in ORTHOCLADIINAE**: The year of publication of the paper describing *Pseudhydrobaenus porteri* is almost certainly 1913 and not 1912 – see note under Brèthes (1913) in the Bibliography.

postcinctura (TOKUNAGA, 1964), **CORYNONEURA**: Treated as a valid species of *Corynoneura* in Ferrington & Sæther (2006) and removed from synonymy with *Pseudosmittia maculiventris* Edwards.

praecox GOETGHEBUER, 1944, **Nomina dubia in ORTHOCLADIINAE**: The name *Limnophyes praecox* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

prolongatus KIEFFER, 1916, synonym of **CRICOTOPUS (ISOCLADIUS) trifasciatus** (MEIGEN, 1810): The correct year of description of *prolongatus* is 1916 and not 1915 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 180).

propinquus (BRUNDIN, 1947), **BRYOPHAENOCLADIUS**: See note on *B. inconstans* (Brundin, 1947).

proprius CHAUDHURI & SINHARAY, 1989, **PARAPHAENOCLADIUS**: The paper in which *P. proprius* was described was published in 1989 and not 1987 – see note under Chaudhuri & Sinharay (1989) in the Bibliography.

PROPSILOCERUS KIEFFER, 1923: Preliminary molecular data in Cranston, Hardy & Morse (2012) indicates that *Propsilocerus* should be placed in the Prodiamesinae but no formal change is made here because several primitive basal Orthocladiinae genera have not yet been examined and future molecular work may produce different results which might either confirm the current placements or indicate alternative subfamily placements for a number of genera.

PSEUDHYDROBAENUS BRÈTHES, 1913, **Nomina dubia in ORTHOCLADIINAE**: The year of publication of the paper describing *Pseudhydrobaenus* is almost certainly 1913 and not 1912 – see note under Brèthes (1913) in the Bibliography. In the original description of the genus there are two spellings "*Pseudhydrobœnus*" and "*Pseudhidrobœnus*" but the correct spelling is *Pseudhydrobaenus* since the suffix is based on the existing generic name *Hydrobaenus* Fries.

pseudoictericus SANTOS-ABREU, 1918, **Nomina dubia in ORTHOCLADIINAE**: The correct original spelling of the name is *pseudoictericus* and not *pseudictericus* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 248).

pseudoligni MAKARCHENKO & MAKARCHENKO, 2002, **CHAETOCLADIUS (CHAETOCLADIUS)**: The paper in which *C.* (*C.*) *pseudoligni* was described was published in 2002 and not 2001 – see note under Makarchenko & Makarchenko (2002) in the Bibliography.

pseudopumilio MAKARCHENKO & MAKARCHENKO, 2002, **LIMNOPHYES**: The

paper in which *L. pseudopumilio* was described was published in 2002 and not 2001 – see note under Makarchenko & Makarchenko (2002) in the Bibliography.

pseudosimilis GOETGHEBUER & TIMON-DAVID, 1939, synonym of **CRICOTOPUS (CRICOTOPUS) vierriensis** GOETGHEBUER, 1935: Authorship of the name must be Goetghebuer & Timon-David because there is no statement in the paper indicating that Goetghebuer is the sole author.

PSEUDOSMITTIA EDWARDS, 1932: Spies & Reiss (1996: 91) have shown that the genus-group name *Pseudosmittia* is a valid available name that is attributable to Edwards (1932: 141) because he described it by inference (reference to Goetghebuer, 1932) and designated an eligible type-species.

pulchellus (MEIGEN, 1830), synonym of **CRICOTOPUS (CRICOTOPUS) triannulatus** (MACQUART, 1826): The name *pulchellus* Meigen was originally described in the genus *Chironomus* and not in the genus *Trichocladius* as erroneously given in the Palaearctic Catalogue (Ashe & Cranston 1990: 176).

punctipennis (GOETGHEBUER, 1919), **LIMNOPHYES**: The designation in Sæther (1990: *Entomologica Scandinavica Supplement* **35**: 67) of an adult female as lectotype for *punctipennis* is invalid for the reasons given in Spies & Sæther (2004: 23).

punctipennis (GOETGHEBUER, 1921), synonym of **LIMNOPHYES punctipennis** (GOETGHEBUER, 1919): The description, in a key, begins on page 90 but the name *punctipennis* is first mentioned on page 91. Page 91 is therefore considered to be the correct page to cite.

puripennis KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: *Camptocladius puripennis* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

reductus HIRVENOJA, 1973, **CRICOTOPUS (ISOCLADIUS)**. The species *Cricotopus* (*Isocladius*) *reductus* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

reductus PANKRATOVA, 1972, **Unavailable names in ORTHOCLADIINAE**: The name *reductus* Pankratova is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

remotus KIEFFER, 1916, questionable synonym of **PSECTROCLADIUS (PSECTROCLADIUS) sordidellus** (ZETTERSTEDT, 1838): The correct year of description of *remotus* is 1916 and not 1915 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 219).

restricta BRUNDIN, 1956, **Generically Unplaced Valid ORTHOCLADIINAE**: *Pseudosmittia restricta* Brundin and *Pseudosmittia brundini* Makarchenko & Makarchenko, which may be synonyms or closely related sister species, do not belong in *Pseudosmittia* but most likely deserve a separate genus (Ferrington & Sæther 2011: 15). Until the status of both names is resolved they are treated as valid generically unplaced species of Orthocladiinae.

retezati (ALBU, 1972), **GEORTHOCLADIUS (GEORTHOCLADIUS)**: The correct original spelling of the species name in Albu (1972: 17) is *retezati* and not *retezat* as given in the Palaearctic Catalogue (Ashe & Cranston, 1990: 208).

rhabani (KIEFFER, 1923), questionable synonym of **EUKIEFFERIELLA brevicalcar** (KIEFFER, 1911): The description of *rhabani* is on page 141 and not on page 162 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 183).

rhacusensis STROBL, 1898, **Nomina dubia in ORTHOCLADIINAE**: *Chironomus rhacusensis* was described twice, firstly in Strobl (1898) and secondly in Strobl (1900), but only the second of these was cited in the Palaearctic Catalogue (Ashe & Cranston 1990: 249).

RHEOCRICOTOPUS BRUNDIN, 1956: Evenhuis *et al.* (2008, *Zootaxa* 1912: 29) have stated that *Rheocricotopus* in Thienemann & Harnisch (1932) is a nomen nudum due to the lack of a type-species fixation, but that the name is available from and attributable to Brundin (1956: 118), who gave a diagnosis for the genus and designated an eligible type-species. Martin Spies (pers. comm. to P.

Ashe), whom Evenhuis *et al.* had contacted prior to their publication, confirms those facts.

rhithrogenae (ZAVŘEL, 1924), **SYMBIOCLADIUS** (**SYMBIOCLADIUS**): The description of *S. rhithrogenae* begins on page 372 and not on page 371 as given in the Palaearctic Catalogue (Ashe & Cranston, 1990: 232). The record of *Symbiocladius* larvae from East Siberia, "Baical Lake region" in Matëna & Soldán (1983: 85), may be referrable to *S. rhithrogenae* since the species is known from the adjoining Russian Far East.

rhyacobius KIEFFER, 1911, **ORTHOCLADIUS** (**ORTHOCLADIUS**): Records of this species from some European countries are regarded as doubtful and require confirmation. There are also doubtful records from North Africa, the Near East, the East Palaearctic and the Nearctic (Sæther & Spies 2011) which are even more highly suspect and these are not included here in the distribution data because of the problems concerning this and related species (including *O.* (*O.*) *rhyacophilus* Kieffer, 1911 and *O.* (*O.*) *dispar* Goetghebuer, 1942) which are discussed in detail by Spies & Sæther (2004: 24-26).

rhyacophilus KIEFFER, 1911, **Nomina dubia probably in ORTHOCLADIUS** (**ORTHOCLADIUS**): Until the status of *Orthocladius rhyacophilus* is resolved we prefer to treat it as a nomen dubium in (*Orthocladius* (*Orthocladius*) because of the problems concerning it and related species which are discussed in detail by Spies & Sæther (2004: 24-26).

rivinus POTTHAST, 1914, **ORTHOCLADIUS** (**ORTHOCLADIUS**): See note on *Hydrobaenus distylus* (Potthast, 1914).

rostratus ANDERSEN & MENDES, 2010, **BRYOPHAENOCLADIUS**: The square brackets, around the longitude and latitude, are part of the original type-locality data.

rostratus KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: The name *Camptocladius rostratus* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

ruber ROBACK, 1960, **Subgenerically unplaced valid species of CRICOTOPUS**: The incorrect original spelling, as *Cricotopus rubrum*, was corrected to *Cricotopus ruber* in Spies & Reiss (1996: 76) based on requirements of Articles 31.2 and 32.3 of the Zoological Code (ICZN 1999).

rubicundus (MEIGEN, 1818), **ORTHOCLADIUS** (**ORTHOCLADIUS**): In the Palaearctic Catalogue (Ashe & Cranston, 1990: 206) under the type-locality for *O.* (*O.*) *rubicundus*, it says "not given (?Aachen)". However, this is incorrect because in Meigen (1818) the phrase "Nicht selten in Hessen" [= Not rare in Hessen] is used.

rusticus GOETGHEBUER, 1932, **CHAETOCLADIUS** (**CHAETOCLADIUS**): The name *rusticus* is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly on page 166 as a nomen dubium probably in *Chaetocladius* and secondly on page 205 as a nomen dubium perhaps in *Orthocladius* (*Euorthocladius*). The holotype was redescribed by Soponis (1986) and treated as a valid species of *Chaetocladius*.

sagittalis (KIEFFER, 1908), synonym of **ACRICOTOPUS lucens** (ZETTERSTEDT, 1850): In the original description of *sagittalis* the only specified type-locality is "Insel Rügen" and not "Rügen, Halbinsel Jasmund, Küsterkoppel" as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 159) - the latter quoted text is derived from locality data in the lectotype designation.

sahariensis KIEFFER, 1926, **Nomina dubia in ORTHOCLADIINAE**: The correct original spelling of the name is *sahariensis* and not *saharensis* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 249).

saliniensis PANKRATOVA, 1959, **Nomina dubia probably in LIMNOPHYES**: The name *L. saliniensis* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

saxicola KIEFFER, 1916, synonym of **CRICOTOPUS** (**ISOCLADIUS**) **sylvestris** (FABRICIUS, 1794): A type-locality is specified and the description of *saxicola* begins on page 511 and not on page 512 as given in the Palaearctic Catalogue

(Ashe & Cranston 1990: 179).

scalpellatus BRUNDIN, 1947, **Nomina dubia in LIMNOPHYES**: *Limnophyes scalpellatus* is treated as a nomen dubium in Sæther (1990: 8) because the type material, believed to be in the Swedish Museum of Natural History (Stockholm), could not be located.

scanicus (BRUNDIN, 1947), **BRYOPHAENOCLADIUS**: See note on *B. inconstans* (Brundin, 1947).

schlienzi WÜLKER, 1956, **PSECTROCLADIUS (PSECTROCLADIUS)**: In Wülker (1956) the type-locality for *P. schlienzi* is not clearly specified but on page 18 it states that the holotype and paratypes are in the Falkau Collection. All the material of *P. schlienzi* in the Falkau Collection is listed on page 49 and this is the basis of the type-locality data quoted under the species entry.

schoschcae MARTYNOVA, 1969, **Unavailable names in ORTHOCLADIINAE**: The correct original spelling of the name is *schoschcae* and not *schoschae* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 253).

scirpicola (KIEFFER, 1924), synonym of **CRICOTOPUS (ISOCLADIUS) intersectus** (STAEGER, 1839): The name *Trichocladius scirpicola* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990). However, it is included in Hirvenoja (1973: 312) as a synonym of *Cricotopus* (*Isocladius*) *intersectus*.

scottae FREEMAN, 1956, **CRICOTOPUS (CRICOTOPUS)**: The larval pecten epipharyngis of *scottae* consists of three scales of similar size based on the description and drawings in Harrison (1992: 174, Fig. 75). Consequently the species belongs to the subgenus *Cricotopus*.

seitenstettensis (STROBL, 1880), **Nomina dubia in BRILLIA**: The name *seitenstettensis* is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 161 as a nomen dubium in *Brillia* and secondly and wrongly on page 249 as a nomen dubium in Orthocladiinae.

seonwui REE & JEONG, 2010, **Subgenerically unplaced valid species of ORTHOCLADIUS**: Originally described as *Orthocladius seonwui* but they

indicate placement in the subgenus *Pogonocladius* based on the strongly produced anal lobe of the wing. However, the male hypopygium is atypical for the subgenus and does not resemble that of *O.* (*P.*) *consobrinus* (Holmgren) the only species that is definitely assigned to *Pogonocladius*. We therfore prefer to treat it as subgenerically unplaced valid species of *Orthocladius*.

septentrionalis CHERNOVSKII, 1949, **Nomina dubia in LIMNOPHYES**: The description of *Limnophyes septentrionalis*, in a key, begins on page 147 but the species is only formally named on page 148 and the latter is therefore considered to be the correct page to cite.

septentrionalis CHERNOVSKII, 1949, **Nomina dubia in ORTHOCLADIINAE**: The description of *Smittia septentrionalis*, in a key, begins on page 150 but is only formally named on page 151 and the latter is therefore considered to be the correct page to cite.

setiger (KIEFFER, 1908), synonym of **CHAETOCLADIUS** (**CHAETOCLADIUS**) **perennis** (MEIGEN, 1830): The name *Dactylocladius setiger* Kieffer was described twice, in 1908 and 1911, but the 1908 description is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

shadini (PANKRATOVA, 1968), synonym of **EURYCNEMUS crassipes** (MEIGEN, 1810): The description of *shadini* in Pankratova (1968) begins on page 254 and not page 253 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 253).

SHINANOYUSURIKA SASA & HIRABAYASHI, 1991, synonym of **PROSMITTIA** BRUNDIN, 1956: There are two different spellings of the genus name in the original description, once on page 116 as "*Shinanoyasurika*" and three times as "*Shinanoyusurika*" (twice on page 116, and once on page 119 in the figure legend). The Japanese common name for a chironomid is yusurika and therefore the correct original spelling of the genus name is *Shinanoyusurika*.

sibiricola LIPINA, 1949, **Unavailable names in ORTHOCLADIINAE**: The name *sibiricola* Lipina is missing from the Palaearctic Catalogue (Ashe & Cranston, 1990).

simulans (CHERNOVSKII, 1949), synonym of **ABISKOMYIA virgo** EDWARDS, 1937: The description of *simulans*, in a key, begins on page 116 but the species is only formally named on page 118 and the latter is therefore considered to be the correct page to cite.

smolandicus BRUNDIN, 1947, **ORTHOCLADIUS** (**SYMPOSIOCLADIUS**): The type-locality data for *smolandicus*, "Kvarbejs, Möär (Sweden)", as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 206) is incorrect.

sp.: CRANSTON, BARLEY, LANGLEY (née CHASE), DIEFFENBACHER-KRALL, LONGMUIR, & ZLOTY, 2011, **PROPSILOCERUS**: The only record of an extant population of the genus in the Nearctic is that detailed for Canada (British Columbia). Subfossil larval records are reported from Canada (Yukon Territory) and U.S.A. (Maine) (Cranston *et al.* 2011) but whether or not extant populations still exist in these areas is unknown.

sp.: FITTKAU, 1974, **ICHTHYOCLADIUS**: There is some overlap in the host fish species from localities 1 (Trinidad), 2 (Venezuela, Orinoco) and 3 (Guiana [= Guyana]) detailed in Fittkau (1974: 103 and 105 - Fig. 17) which could indicate that a single *Ichthyocladius* species is involved.

sp.: OSPINA-TORRES, RISS & RUIZ, 1999, **NANOCLADIUS** (**NANOCLADIUS**): The figure of the mentum of *Nanocladius* in Ospina-Torres *et al.* (1999: 376, Fig. 10) indicates that the larva belongs in the subgenus *Nanocladius*.

sp.: (ROBACK & COFFMAN, 1983), **OLIVEIRIELLA**: The pupal type described as "Genus 5 sp." in Roback & Coffman (1983: 48) has been shown by Wiedenbrug & Fittkau (1997) to belong to the genus *Oliveiriella*. A comparison of the pupal description of this species with those of *O. almeidai* and *O. sanjavieri* indicates that the unnaned species from Venezuela represents a different species.

sp.: ROBACK & COFFMAN, 1983, **PARAPHAENOCLADIUS**: The abbreviated locality code data for Bolivia and Peru in Roback & Coffman (1983) is fully detailed in an earlier paper by Roback *et al.* (1980).

sp.: ROBACK & COFFMAN, 1983, **Subgenerically unplaced species of**

RHEOCRICOTOPUS: The abbreviated locality code data for Peru in Roback & Coffman (1983) is fully detailed in an earlier paper by Roback *et al.* (1980).

SPANIOTOMA PHILIPPI, 1866: The year of publication of *Spaniotoma* Philippi is changed from 1865 to 1866 – see note in the Bibliography under Philippi (1866). The reasons for regarding *Spaniotoma* as a nomen dubium are detailed in Ashe (1983: 49).

spatulicornis (KIEFFER, 1913), **CRICOTOPUS** (**ISOCLADIUS**): The species *spatulicornis* was included in the subgenus *Isocladius* of the genus *Cricotopus* in Bhattacharyay, Ali & Chaudhuri (1991).

sphagnicola (KIEFFER, 1925), **Nomina dubia in PSECTROCLADIUS**: The paper in which *Psectrocladius sphagnicola* was described by Kieffer was published in 1925 and not in 1924 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 220).

sphagnophilus KIEFFER, 1925, **Nomina dubia in ORTHOCLADIINAE**: The paper in which *Camptocladius sphagnophilus* was described by Kieffer was published in 1925 and not in 1924 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 250).

sphagnorum KIEFFER, 1925, **Nomina dubia in ORTHOCLADIINAE**: The paper in which *Trichocladius sphagnorum* was described by Kieffer was published in 1925 and not in 1924 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 250).

spitzbergensis (KIEFFER, 1919), **Nomina dubia probably in ORTHOCLADIUS** (**EUDACTYLOCLADIUS**): The name was originally described in *Dactylocladius* and not in *Orthocladius* or *Camptocladius*. It was included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 204 as a nomen dubium in *Orthocladius* (*Eudactylocladius*) and secondly and wrongly on page 250 as a nomen dubium in Orthocladiinae. It was treated as a valid subgenerically unassigned species of *Orthocladius* in the Nearctic Catalog (Oliver *et al.* 1990) but the reason is unclear.

squamatus (KIEFFER, 1921), **Nomina dubia in LIMNOPHYES**: The original description begins on page 95 and not page 94 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 196).

squamiger (KIEFFER, 1922), **Nomina dubia in LIMNOPHYES**: *Camptocladius squamiger* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

squamosus KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: *Camptocladius squamosus* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

stagnalis GOETGHEBUER, 1933, **Nomina dubia in ORTHOCLADIINAE**: The correct year of publication of the paper which includes the description of *stagnalis* is 1933 and not 1932 – see Bibliography under Goetghebuer (1933).

stiliger KIEFFER & THIENEMANN, 1921, **Nomina dubia probably in ORTHOCLADIINAE**: The authorship of the name must be credited to both Kieffer and Thienemann because the paper contains descriptions of the adult (quoted text from Kieffer) and the immature stages (by Thienemann).

strandi LUNDSTRÖM, 1914, **Nomina dubia in ORTHOCLADIINAE**: The correct year of publication of the paper which includes the description of *strandi* is 1914 and not 1913 – see note under Lundström (1914) in the Bibliography.

strenzkei (GOETGHEBUER, 1943), **Nomina dubia in SMITTIA**: The name *strenzkei* was originally described in *Smittia* (*Pseudosmittia*) and not in *Pseudosmittia* as incorrectly given in Ashe & Cramston (1990: 224). According to Ferrington & Sæther (2011: 14) the type females of *S. strenzkei* are lost and an apparently associated larva indicates placement in *Smittia* where it is now regarded as a nomen dubium.

stylatus (KIEFFER, 1924), synonym of **PARAMETRIOCNEMUS stylatus** (SPÄRCK, 1923): See note on *stylatus* (Spärck, 1923).

stylatus (SPÄRCK, 1923), **PARAMETRIOCNEMUS**: The use of the name *Metriocnemus stylatus* in Spärck (1923) when describing the immature stages constitutes a

valid description with Spärck as the author of the name – see Spies & Sæther (2004: 10-11). The adult of *Metriocnemus stylatus* was described as a new species by Kieffer (1924). The separate descriptions of *Metriocnemus stylatus* by Spärck and by Kieffer are homonyms and synonyms of one another. The only record (Canada, Ontario) of *P. stylatus* from the Nearctic is considered doubtful in Fauna Europaea (Sæther & Spies 2011) and it is therefore excluded from the distribution data.

subaptera GOETGHEBUER, 1934, **Nomina dubia in SMITTIA**: Two examined paratype females confirm that it is a *Smittia* with reduced wings (Ferrington & Sæther 2011: 10) but since the species is only known as adult females it is treated here as a nomen dubium in *Smittia*.

subcoeruleus EDWARDS, 1929, synonym of **CRICOTOPUS (CRICOTOPUS) annulator** GOETGHEBUER, 1927: The correct original spelling is *subcoeruleus* and not *subcoerulescens* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 171). In addition, *subcoeruleus* was originally described as a variety of "*motitator*" which is a misspelling of *motatrix* Linnaeus, 1758.

subnigra FREEMAN, 1956, **SMITTIA**: Freeman (1956) included *Allocladius niger* Kieffer (1913) in *Smittia*, which then became *Smittia nigra* Kieffer and the latter then had priority over *Smittia nigra* Freeman (1953). Freeman (1956) proposed *Smittia subnigra* as the replacement name for *Smittia nigra* Freeman. Under the Zoological Code the valid name for the species is still *Smittia subnigra* Freeman (synonym *S. nigra* Freeman) irrespective of the fact that *Allocladius niger* Kieffer is no longer in *Smittia*.

subnudicollis (EDWARDS, 1931), **LIMNOPHYES**: The description of *L. subnudicollis* is on page 294 and not page 309 as given in the Neotropical Catalog (Spies & Reiss 1996: 77).

suecica (KIEFFER, 1922), **Nomina dubia in SMITTIA**: The name *Camptocladius suecica* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

superans KIEFFER, 1916, synonym of **CRICOTOPUS (ISOCLADIUS) sylvestris** (FABRICIUS, 1794): A type-locality is specified and the description of *superans* begins on page 537 and not on page 538 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 179).

sylvestris GOETGHEBUER, 1921, synonym of **BRILLIA bifida** (KIEFFER, 1909): The description begins on page 81 but the species name *sylvestris* is first mentioned on page 82. Page 82 is therefore considered to be the correct page to cite.

symbioticus AKHROROV, 1977, synonym of **PSECTROCLADIUS (PSECTROCLADIUS) barbimanus** (EDWARDS, 1929): The name *P. symbioticus* was described on page 548 and not on page 545 as given in Ashe & Cranston (1990: 217).

tadshikistanicus AKHROROV, 1977, synonym of **PSECTROCLADIUS (PSECTROCLADIUS) barbimanus** (EDWARDS, 1929): The name *P. tadshikistanicus* was described on page 544 and not on page 545 as given in Ashe & Cranston (1990: 217).

takahashii (TOKUNAGA, 1939), **LOBOSMITTIA**: The species *takahashii* Tokunaga was recently transferred to the genus *Lobosmittia* by Ferrington & Sæther (2011: 15).

teletzkensis LIPINA, 1949, **Nomina dubia in ORTHOCLADIINAE**: The correct original spelling of the name is *teletzkensis* and not *teletskensis* as given in the Palaearctic Catalogue (Ashe & Cranston, 1990: 250).

tenebrosa GOETGHEBUER, 1943, questionable synonym of **PSEUDOSMITTIA simplex** STRENZKE & THIENEMANN, 1942: The name *tenebrosa* is described on page 109 and not page 108 as given in Ashe & Cranston (1990: 224). Sæther & Ferrington (2003: 5) state that the damaged type is probably a synonym of *P. simplex*.

tenuinervis (ANDERSEN, 1937), synonym of **LIMNOPHYES pumilio** (HOLMGREN, 1869): The proposal of the new name *Smittia tenuinervis* Andersen for "*pumilio var. tenuinervis* Kieff. 1922" was unnecessary because all Andersen had to do

was elevate the status of *tenuinervis* Kieffer from a variety to that of a full species. The name *Smittia tenuinervis* Andersen is missing from the Nearctic Catalog (Oliver, Dillon & Cranston 1990).

tenuisetosus CHAUDHURI & GHOSH, 1980, **CRICOTOPUS** (**ISOCLADIUS**): The species *tenuisetosus* was included in the subgenus *Isocladius* of the genus *Cricotopus* in Bhattacharyay, Ali & Chaudhuri (1991).

terrester PAGAST, THIENEMANN & KRÜGER, 1941, **METRIOCNEMUS** (**METRIOCNEMUS**): The authorship of the species *M.* (*M.*) *terrester* is not attributed to Pagast alone but to Pagast, Thienemann & Krüger as given in the updated Chironomidae section of the Fauna Europaea website (Sæther & Spies 2011).

terrestris (KRÜGER, THIENEMANN & GOETGHEBUER, 1941), **GYMNOMETRIOCNEMUS** (**GYMNOMETRIOCNEMUS**): The authorship of the species is now credited to Krüger, Thienemann & Goetghebuer (Martin Spies pers. comm. to P. Ashe).

terrestris (THIENEMANN & STRENZKE, 1941), **SMITTIA**: The description of the larva and pupa in Thienemann & Strenzke (1941: 251, sub *Euphaenocladius* (*Smittia*) *terrestris*) published on the 1 April 1941 predates the adult description in Goetghebuer (1941: 289, sub *Smittia terrestris*) published on the 28 August 1941. Therefore the species name is available from and credited to Thienemann & Strenzke (1941), with their specimens constituting most (or possibly all) of the type material. The type material of Thienemann and Strenzke is a mixed series and includes representatives of at least two species in at least two genera, one is *Smittia terrestris* and the second is *Parasmittia carinata* Strenzke. To avoid nomenclatural confusion only those specimens which are referable to *Smittia* (and *S. terrestris*) should be considered as candidates for eventual lectotype designation - the specimens of *P. carinata* should be excluded from consideration. A lectotype designation, based on Thienemann's and Strenzke's material of *S. terrestris*, should be avoided until such time as a comprehensive revision of this particular

case is undertaken which provides sufficient taxonomic information on the type series to ensure that the most appropriate specimen is selected to justify fixing it as the sole name-bearing type (Martin Spies pers. comm. to P. Ashe). The most recent examination of two female specimens of *S. terrestris* Goetghebuer, within the same Goetghebuer preparation, by Ferrington & Sæther (2011) supports probable placement in *Smittia* but they indicate that the species may deserve a separate genus. It is possible that these two adult females, described by Goetghebuer (1941, 1943), were reared and may be associated with pupal exuviae in Thienemann's and Strenzke's type material.

tetrasema KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: In the second description in Kieffer (1922) the name is mentioned in the introduction on page 26 as "*C. tetrasema* n. sp." and the adult female is keyed, with diagnostic characters, on page 33.

thalassobia GOETGHEBUER, 1937, synonym of **SMITTIA thalassicola** GOETGHEBUER, 1943: The name *Smittia thalassobia* was wrongly included as a nomen dubium in the Orthocladiinae in the Palaearctic Catalogue (Ashe & Cranston, 1990: 251) but it should have been listed as a synonym of *Smittia thalassicola*.

thalassophila (BEQUAERT & GOETGHEBUER, 1914), **THALASSOSMITTIA**: The paper in which *thalassophila* was described was published in 1914 and not 1913 – see note in Bibliography under Bequaert & Goetghebuer (1914).

thermicola (TUXEN, 1944), synonym of **CRICOTOPUS (ISOCLADIUS) sylvestris** (FABRICIUS, 1794): The form *thermicola* was described in the genus *Eucricotopus* and not *Cricotopus* as given in the Palaearctic Catalogue (Ashe & Cranston, 1990: 179). Several other localities are mentioned in Tuxen (1944) but only those which relate to the form *thermicola* are listed in the type-localities.

tiltinshi PANKRATOVA, 1959, **Unavailable names in ORTHOCLADIINAE**: The name *tiltinshi* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

timoni GOETGHEBUER & TIMON-DAVID, 1939, **Nomina dubia in ORTHOCLADIINAE**: The name *Orthocladius timoni* is described on page 69 and not on page 68 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 251). Authorship of the name must be Goetghebuer & Timon-David because there is no statement in the paper indicating that Goetghebuer is the sole author.

tobaunvicesima KIKUCHI & SASA, 1990, synonym of **PSEUDOSMITTIA guineensis** (KIEFFER, 1918): The name *tobaunvicesima* (a synonym of *P. guineensis*), is spelt correctly in Ferrington & Sæther (2011) on pages 12, 16 and 158 but incorrectly as *tobaundecima* on page 155.

tokunagai HIRVENOJA, 1973, **CRICOTOPUS (CRICOTOPUS)**: The correct original spelling is *tokunagai* and not *tokunagaia* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 181).

tornetraeskensis (EDWARDS & THIENEMANN in THIENEMANN, 1941), **ZALUTSCHIA**: Spies & Sæther (2004: 29) seleted *tornetraeskensis* as the correct original spelling, in order to stalilize nomenclature, with *Trissocladius tornetraeskensis* being the correct original binominal combination. In the Palaearctic Catalogue (Ashe & Cranston 1990: 238) the authorship (Edwards), original genus (*Orthocladius*) and species spelling (*tornetraskensis*) are incorrect for the reasons given in Spies & Sæther (2004: 29).

transcaucasicus CHERNOVSKII, 1949, **Nomina dubia in ORTHOCLADIINAE**: The type-locality data is derived from the label on the slide of the type specimen (Dr Andrey Przhiboro pers. comm to P. Ashe). The name *Limnophyes transcaucasicus* is missing from the Palaearctic Catalogue (Ashe & Cranston, 1990).

triangulifer (SPÄRCK, 1923), synonym of **Heterotrissocladius marcidus** (WALKER, 1856): The use of the name *Metriocnemus triangulifer* in Spärck (1923) when describing the immature stages constitutes a valid description with Spärck as the author of the name – see Spies & Sæther (2004: 10-11). The adult of

Metriocnemus triangulifer was described as a new species by Kieffer (1924). The separate descriptions of *Metriocnemus triangulifer* by Spärck and by Kieffer are homonyms and synonyms of one another.

triangulifer (KIEFFER, 1924), synonym of **Heterotrissocladius marcidus** (WALKER, 1856): See previous note on *triangulifer* (Spärck, 1923).

triannulatus (MACQUART, 1826), **CRICOTOPUS** (**CRICOTOPUS**): In Goetghebuer (1921: 171) the use of "n. sp." after the name *Cricotopus triannulatus* is an error and instead the name Macquart should have been inserted.

triappendiculata (GOETGHEBUER, 1932), synonym of **PSEUDOSMITTIA forcipata** (GOETGHEBUER, 1921): The description of *triappendicalata* begins on page 217 and the correct volume number is 71 – in the Palararctic Catalogue (Ashe & Cranston 1990: 224) they were incorectly given as page 216 and volume 73. In addition, the correct year of publication of the paper which includes the description of *triappendicalata* is 1932 and not 1931 – see Bibliography under Goetghebuer (1932).

trichialis CHAUDHURI & SINHARAY, 1989, synonym of **PARAPHAENOCLADIUS impensus** subsp. **croceus** CHAUDHURI & BHATTACHARYAY, 1989: The paper in which *P. trichialis* was described was published in 1989 and not 1987 – see note under Chaudhuri & Sinharay (1989) in the Bibliography.

TRICHOCLADIUS KIEFFER, 1906, **Nomina dubia in ORTHOCLADIINAE**: *Trichocladius*, with a type-species from Chile, is missing from the Neotropical Catalog of Spies & Reiss (1996).

tridentiger KIEFFER, 1925, **Nomina dubia probably in ORTHOCLADIUS** (**EUDACTYLOCLADIUS**): The name *O. tridentiger* is included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 204 as a nomen dubium probably in *Orthocladius* (*Eudactylocladius*) and secondly and wrongly on page 251 as a nomen dubium in Orthocladiinae.

trifoliataus KIEFFER, 1924, **Nomina dubia in ORTHOCLADIINAE**: The name *Camptocladius trifoliatus*, because the type could not be located, is regarded as a nomen dubium (Sæther & Ferrington 2003: 5).

trigonus (GOETGHEBUER, 1950), **BRYOPHAENOCLADIUS**: In the Palaearctic Catalogue (Ashe & Cranston 1990: 197) listed as a nomen dubium in *Limnophyes* but now a valid species in *Bryophaenocladius* in Fauna Europaea (Sæther & Spies 2011).

trinotatus KIEFFER, 1922, questionable synonym of **METRIOCNEMUS ursinus** (HOLMGREN, 1869): The name *trinotatus* is described on page 11 and not on page 10 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 200).

triplex STRENZKE, 1950, **PSEUDOSMITTIA**: An examination of the type material by Sæther & Ferrington (2003: 5) has shown that *P. triplex* is a valid species and not a synonym of *P. forcipata* (Goetghebuer, 1921) as given in Ashe & Cranston (1990: 223).

triquetra (PANKRATOVA, 1970), **PARAKIEFFERIELLA**: The description of the species *P. triquetra* begins on page 206 and not page 106 as given in Ashe & Cranston (1990: 210).

triquetrius CHAUDHURI & BHATTACHARYAY, 1989, **PARAMETRIOCNEMUS**: The species *triquetrius* was originally described in *Paraphaenocladius* but was subsequently transferred to *Parametriocnemus* by Sæther & Wang (1995: 65).

triseta KIEFFER, 1925, **Nomina dubia in ORTHOCLADIINAE**: The paper in which *Camptocladius triseta* was described by Kieffer was published in 1925 and not in 1924 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 251).

tritomus KIEFFER, 1921, **Nomina dubia in ORTHOCLADIINAE**: The original spelling is *tritomus* and not *tritoma* as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 251).

truncatocaudatus (TOKUNAGA, 1939), **LIMNOPHYES**: The species *truncatocaudata* Tokunaga was recently transferred to the genus *Limnophyes* by Ferrington & Sæther (2011: 15).

TSHERNOVSKIELLA ZVEREVA, 1950: In the Palaearctic Catalogue (Ashe & Cranston 1990: 239) the spelling is incorrectly given as *Tschernovskiella*.

tshernovskii (PANKRATOVA, 1968), **TVETENIA**: Przhiboro & Sæther (2010) state that Pankratova (1968) did not describe or define the species and misapplied the term 'nomen novum' but by referring to the species diagnosis of Chernovskii (1949) made the name available in accordance with the Code (ICZN 1999: Article 13.1). A full list of all the type material is given in Przhiboro & Sæther (2010).

tsubakuroensis (SASA & OKAZAWA, 1994), **PSEUDORTHOCLADIUS** (**PSEUDORTHOCLADIUS**): There are two different spellings of the species name in the original description, as *tubakuroensis* on page 79 and as *tsubakuroensis* in the legend for Fig. 11 (Plate 7) on page 87. Since the species is named after Mount Tsubakuro the correct spelling is *tsubakuroensis*.

tsushimaensis TOKUNAGA, 1933, **CLUNIO**: The taxon *minor* was originally described as a variety of *C. tsushimaensis* based on some differences in the antennae of the adults. When Tokunaga (1935) described the pupa and larva of both he found small differences between *minor* and *tsushimaensis*. Adults from Hawaii were identified as *tsushimaensis* by Tokunaga. Hardy (1960: 153) states that the antennae of the adults from Hawaii best fit *minor* but he does not regard the differences to be of any importance. Until the problem can be investigated further it is best to treat *minor* as a synonym, rather than as a subspecies, of *tsushimaensis*.

turfaceus (KIEFFER, 1925), **Nomina dubia in LIMNOPHYES**: The paper in which *Camptocladius turfaceus* was described by Kieffer was published in 1925 and not in 1924 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 195). See note on *Limnophyes pentatomus* (Kieffer, 1915).

turficola KIEFFER, 1925, **Nomina dubia probably in ORTHOCLADIUS** (**EUDACTYLOCLADIUS**): The paper in which *Orthocladius turficola* was described by Kieffer was published in 1925 and not in 1924 as given in the

Palaearctic Catalogue (Ashe & Cranston 1990: 251). In addition, *O. turficola* was included twice in the Palaearctic Catalogue (Ashe & Cranston 1990) firstly and correctly on page 204 as a nomen dubium probably in *Orthocladius* (*Eudactylocladius*) and secondly and wrongly on page 251 as a nomen dubium in Orthocladiinae.

tusimoneoa SASA & SUZUKI, 1999, **TOKUNAGAIA**: There are two different spellings of the species name in the original description, as *tusimolemeus* on page 90 and as *tusimoneous* in the legend for Fig. 18 on page 120. The correct spelling of the species name is *tusimoneous* but since the species is included in *Tokunagaia* the ending must be corrected to *tusimoneoa*.

tusimouveus (SASA & SUZUKI, 1999), **PARAMETRIOCNEMUS**: Although it states in the original description that the species *tusimouveus* was found at four different localities on Tsushima Island these specific localities are not identified.

unicolor PHILIPPI, 1866, **Nomina dubia in ORTHOCLADIINAE**: The year of publication of *Spaniotoma unicolor* Philippi is changed from 1865 to 1866 – see note under Philippi (1866) in the Bibliography.

unicus MAKARCHENKO & MAKARCHENKO, 2002, **CHAETOCLADIUS** (**CHAETOCLADIUS**): The paper in which *C.* (*C.*) *unicus* was described was published in 2002 and not 2001 – see note under Makarchenko & Makarchenko (2002) in the Bibliography.

unizonatus HARRISON, 1992, **CRICOTOPUS** (**CRICOTOPUS**): The larval pecten epipharyngis of *unizonatus* consists of three scales of similar size based on the description and drawings in Harrison (1992: 176, Fig. 85). Consequently the species belongs to the subgenus *Cricotopus*.

ursinus ANDERSEN, 1937, **Nomina dubia in ORTHOCLADIINAE**: The proposal of the new name *Limnophyes ursinus* Andersen for *Dactylocladius petraeus* var. *ursinus* Kieffer was unnecessary because all Andersen had to do was elevate the status of *ursinus* Kieffer from a variety to that of a full species. The name *Limnophyes ursinus* Andersen is missing from the Nearctic Catalog (Oliver,

Dillon & Cranston, 1990).

ursinus (HOLMGREN, 1869), **METRIOCNEMUS** (**METRIOCNEMUS**): The original description of the species is on page 39 and not page 30 as incorrectly given in the Palaearctic Catalogue (Ashe & Cranston 1990: 200).

vagans STONE & WIRTH, 1947, **CLUNIO**: Most specimens of *Clunio vagans* were found on coastal sites. However, at one location (Wailua Falls, Wailua River, Kauai Island), about four miles from the sea, adult males (with wingless females attached in copulo) were obseved flitting at the water line around spray-drenched boulders where the water ran swiftest in a completely freshwater section of the river. The immature stages were not found at this location but whether or not the adults travel up the river from the coast or breed in the freshwater of the falls is unknown. The first three miles of the river is tidal. If *C. vagans* is proven to breed in freshwater it would represent another case (similar to that found in some Telmatogetoninae) of a predominantly marine genus colonising freshwater.

vagans (THIENEMANN, 1950), synonym of **ORTHOCLADIUS** (**EUDACTYLOCLADIUS**) **olivaceus** (KIEFFER, 1911): The following note was prepared by Martin Spies (pers. comm. to P. Ashe). Cranston (1984: 890) considered the name *Eudactylocladius* '*vagans*' as available, and proposed a male (at the Institut Royale des Sciences Naturelles de Belgique, Brussels) and the associated pupal exuviae and larval skin (both at the Zoologische Staatssammlung, Munich) as lectotype, apparently interpreting a phrase quoted from Thienemann (1950: 132) as "a statement that purports to give characters differentiating the taxon" (ICZN 1961: Article 13(a)(i); the Code provision in effect at the time of Cranston 1984), i.e. "characters purported to differentiate the taxon" (ICZN 1999: Article 13.1.1). However, the German phrase of Thienemann's (1950) quoted by Cranston (1984) incorporates *E.* '*vagans*' in a grouping with *E. olivaceus*, with identical pupal morphotype, rather than differentiating the former species from the latter. Further evidence for this can

be found in Thienemann (1944: 573), where the pupa of "*E. vagans*" was keyed as inseparable from *E. olivaceus*. Consequently, *Eudactylocladius* '*vagans*' in Thienemann (1944, 1950) is a nomen nudum. The lectotype designation in Cranston (1984), therefore, is invalid.

variiforceps KIEFFER, 1916, questionable synonym of **CRICOTOPUS (ISOCLADIUS) sylvestris** (FABRICIUS, 1794): The correct year of description of *variiforceps* is 1916 and not 1915 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 180).

ventae PANKRATOVA, 1959, **Unavailable names in ORTHOCLADIINAE**: The name *ventae* is missing from the Palaearctic Catalogue (Ashe & Cranston 1990).

vernalis MALLOCH, 1915, **PSECTROCLADIUS (PSECTROCLADIUS)**: The species *vernalis* was originally described in the genus *Psectrocladius* and not in the genus *Orthocladius* as given in the Nearctic Catalog (Oliver, Dillon & Cranston 1990: 35).

veronicae ROSSARO, 1992, **PARATRICHOCLADIUS**: Species described in 1992 and not 1991 – see note under Rossaro (1992) in the Bibliography.

verralli (EDWARDS, 1929), **TVETENIA**: Nearctic records of *T. calvescens* (in Georgia) are considered doubtful and excluded from the distribution data because Epler (2001: Chapter 7, p. 155) indicates that larvae could belong to several different species.

versatilis LINEVICH, 1963, **PSECTROCLADIUS (PSECTROCLADIUS)**: The species description of *P. versatilis* begins on page 35 and not on page 39 as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 221). The species was redescribed, as adult male, pupa and larva, in Zelentzov (1980: 219-222) and is now treated as a valid in *Psectrocladius* (*Psectrocladius*).

verticillatus KIEFFER, 1922, **Nomina dubia in ORTHOCLADIINAE**: The name *Camptocladius verticillatus* was first proposed in a key to European *Camptocladius* species by Kieffer (1922).

vesparum (GOETGHEBUER, 1921), **SMITTIA**: The species *vesparum* was originally

described in the genus *Camptocladius* and not in *Smittia* as incorrectly given in the Palaearctic Catalogue (Ashe & Cranston 1990: 229).

vicana (GOETGHEBUER, 1943), **Nomina dubia in PSEUDOSMITTIA**: Originally described as *Smittia* (*Pseudosmittia*) *vicana* and not in the genus *Pseudosmittia* as incorrectly given in Ashe & Cranston (1990: 224). It has previously been regarded as a valid species of *Pseudosmittia* but Sæther & Ferrington (2003: 5) state that the female holotype could not be found and treat it as a nomen dubium in *Pseudosmittia*.

vincenti BOOTHROYD, 1990, **CRICOTOPUS** (**CRICOTOPUS**): All six named *Cricotopus* species known from New Zealand, including *C. planus* and *C. vincenti*, belong in *Cricotopus* s. str. (Boothroyd, 2002: 776).

violaceus SPÄRCK, 1923, synonym of **METRIOCNEMUS** (**METRIOCNEMUS**) **eurynotus** (HOLMGREN, 1883): The use of the name *Metriocnemus violaceus* in Spärck (1923) when describing the immature stages constitutes a valid description with Spärck as the author of the name – see Spies & Sæther (2004: 10-11). The adult of *Metriocnemus violaceus* was subsequently described as a new species by Kieffer (1925). The separate descriptions of *Metriocnemus violaceus* by Spärck and by Kieffer are homonyms and synonyms of one another.

violaceus KIEFFER, 1925, synonym of **METRIOCNEMUS** (**METRIOCNEMUS**) **eurynotus** (HOLMGREN, 1883): See previous note on *violaceus* (Spärck, 1923).

virginianus PAGGI, 1985, **CLUNIO**: The species *Clunio virginianus* is missing from the Neotropical Catalog of Spies & Reiss (1996).

virgo THIENEMANN & STRENZKE, 1940, synonym of **BRYOPHAENOCLADIUS furcatus** (KIEFFER, 1916): The authorship of *B. virgo* is attributed to Thienemann & Strenzke as given in Sæther & Spies (2011) and not to Thienemann in Thienemann & Strenzke.

vitellinus KIEFFER, 1913, **NANOCLADIUS** (**NANOCLADIUS**): The record of *N.* (*N.*)

vitellinus, an Afrotropical species, from Qinghai Province in Palaearctic China is based on larval specimens. The record is now considered doubtful (Fu & Wang 2009: 1) and is excluded from the distribution data of the species.

vrangelensis MAKARCHENKO & MAKARCHENKO, 2002, **LIMNOPHYES**: The paper in which *L. vrangelensis* was described was published in 2002 and not 2001 – see note under Makarchenko & Makarchenko (2002) in the Bibliography.

vshivkovae MAKARCHENKO & MAKARCHENKO, 2002, **PARAKIEFFERIELLA**: The paper in which *P. vshivkovae* was described was published in 2002 and not 2001 – see note under Makarchenko, Zorina, Makarchenko & Sergeeva (2002) in the Bibliography.

whangaroa (LEADER, 1975), **SEMIOCLADIUS**: In Leader (1975), specific type-locality data for *whangaroa* appears to have been accidentally omitted from the paper. Data for the other two described species is from several seashore sites in Auckland Province on the North Island and presumably the holotype of *whangaroa* is from one of these sites.

willemi GRIPEKOVEN, 1913, synonym of **CRICOTOPUS (ISOCLADIUS) trifasciatus** (MEIGEN, 1810): For the purposes of nomenclature, Gripekoven (1913) and Gripekoven (1914) are separate works. In an addendum ("Nachtrag") on page 96 of Gripekoven (1913) [and page 224 of Gripekoven (1914)] he states that *C. willemi* is a Kieffer manuscript name but when Kieffer (1910) described the species he instead used the name *C. limnanthemi* and authorship of the name *C. willemi*, based solely on the immature stages, must be credited to Gripekoven. In the same addendum Gripekoven synonymizes *C. willemi* with *C. limnanthemi* which also means that *C. willemi* was first published in synonymy and is a nomen nudum. Gripekoven (1913) did not use an expression such as "n. sp." or equivalent for *C. willemi* and the identical usage of the same name and text in Gripekoven (1914) does not constitute a separately named taxon and only the first usage, *C. willemi* Gripekoven (1913), is listed. The name *C. willemi* is missing from the Palaearctic Catalogue (Ashe & Cranston, 1990). See

note in the Bibliography under Gripekoven (1913).

yakytriangulata (SASA & SUZUKI, 2000), **RHEOSMITTIA**: The species, originally described as *Parakiefferiella yakytriangulata*, was transferred to *Pseudosmittia* by Yamamoto (2004: 90) but since then it has been tentatively assigned to *Rheosmittia* by Sæther (2006: 24).

yamashiroprimus SASA, 1994, synonym of **RHEOCRICOTOPUS** (**PSILOCRICOTOPUS**) **chalybeatus** subsp. **chalybeatus** (EDWARDS, 1929): There are two different spellings of the species name in the original description, as *yamasiroprimus* on page 30 and as *yamashiroprimus* in the legend for Fig. 4 (Plate 3) on page 57. Since the species is named after the town of Yamashiro the correct spelling is *yamashiroprimus*.

yunoquartus SASA, 1984, **PSECTROCLADIUS** (**PSECTROCLADIUS**): In the original publication there are three different spellings of the species name, *yunoquartus* (on pages ix, 21-24, 103, 106, 114, 182-185), *yunoguartus* (on page 25) and *yunoduarts* (on page 69). The most frequently used spelling, *yunoquartus*, is the correct spelling.

zavreli FITTKAU, SCHLEE & REISS, 1967, **Nomina dubia probably in SMITTIA**: The correct authorship for the name *Smittia zavreli* is Fittkau, Schlee & Reiss and not "Fittkau *in* Fittkau, Schlee and Reiss" as given in the Palaearctic Catalogue (Ashe & Cranston 1990: 231).

zernovi AKHROROV, 1977, synonym of **PSECTROCLADIUS** (**PSECTROCLADIUS**) **barbimanus** (EDWARDS, 1929): The name *P. zernovi* was described on page 547 and not on page 545 as given in Ashe & Cranston (1990: 217).

ABBREVIATIONS USED IN BIBLIOGRAPHY

No symbol = The actual day/month/year, e.g. **[19 March 1975]**, is given if specified in the original publication and not disproven by external evidence. When a specified date of publication is known to be incorrect an explanation is given with the reference. For some references specific dates of publication were not given but in several cases these have been determined by contacting the editor – an explanation is given with the reference in such cases.

Asterisk Symbol: The library receiving date stamp, e.g. **[*18 November 1922]**, for a publication or the relevant part of a publication (e.g. issue of a journal or periodical) is taken as the earliest demonstrated date in the absence of more direct evidence. The number of asterisks identifies the relevant library as indicated below:-

* = Receipt date in the Natural History Museum Library, London.

** = Receipt date in the Smithsonian Institution Library, Washington, D. C. [data from Evenhuis (1989)].

*** = Receipt date in the Bishop Museum Library, Honolulu [data from Evenhuis (1989)].

**** = Receipt date in the British Library, London.

+ = The last day of the year, e.g. **[+31 December 1900]**, or the last day of the month, e.g. **[+30 June 1962]**, is taken as the date of publication if a more precise date than the year, or the month and year, cannot, (a) be determined from the original work, or (b) be taken from other sources.

≤ = The "less than or equals sign" is used to indicate that there is evidence that a particular reference was published "on or before a specified date", e.g. **[≤21 September 1800]**. The example is from Evenhuis (1997: 530) who indicates that Meigen (1800) was published prior to the 22 September 1800. Therefore the earliest provable date at present is on or before, as the symbol "≤" implies, the 21 September 1800.

BIBLIOGRAPHY

NOTE: Wherever an actual publication date is cited in the Bibliography this refers to the date on which printed copies of the corresponding work were issued. Under the International Code of Zoological Nomenclature, all information likely to affect nomenclature must be published in one of the forms specified in the Code (ICZN 1999: Chapter 3). So far, online or web-based versions of a work are not accepted as published in the sense of the Code. Therefore, any new taxon name or other change to nomenclature proposed in such a work remains unavailable and/or invalid. Invalid proposals of names or nomenclatural acts always generate risks of confusion and instability in subsequent usage, thus should be avoided wherever possible. If such a proposal has been made, e.g. in an online version issued before the printed version of a paper, it should be referred to only if absolutely necessary, and with a clear disclaimer that it constitutes formally invalid data.

Aagaard, K. (1979) [5 October 1979] *Eukiefferiella sivertseni* n. sp. from Norway (Diptera: Chironomidae). *In* Sæther, O. A. (ed.). *Recent development in chironomid studies (Diptera: Chironomidae). Entomologica Scandinavica Supplement* **10**: 95-97.

Aagaard, K., Hoffrichter, O., Spies, M., Daverdin, M. and Ekrem, T. (2012) [4 May 2012] An Online Bibliography of the Chironomidae. NTNU Museum of Natural History and Archaeology, Trondheim, Norway: http://literature.vm.ntnu.no/Chironomidae/
[This online bibliography was first made available on the 4th May 2012 which is regarded as the date of publication.]

Akhrorov, F. (1968) [11 April 1968] Novye vidy khironomid (Diptera, Chironomidae) iz ozer Yashil′-Kul′ i Bulun-Kul′ (Pamir) [New chironomid species (Diptera, Chironomidae) from the lakes Yashil-Kul and Bulun-Kul (Pamir)]. *Doklady Akademii Nauk Tadzhikskoi SSR* **10**(11): 68-70.
[The paper was published in the 11th of 12 parts and has been previously wrongly cited as 1967. In the the 11th part, on the reverse of the inner title page, it states that it was "Podpisano k pechati 3/I-1968" [= Passed for publication on the 3rd January 1968]. There is no actual publication date specified in the bound volume or on the issue covers. However, the issue was received by the Zoological Institute in Leningrad (now St Petersburg), on the 11 April 1968, according to the card index of the library (Dr Andrey Przhiboro pers. comm. to P. Ashe), which is currently regarded as the earliest provable date of publication.]

Akhrorov, F. (1975) [19 March 1975] Novye formy lichinok khironomid (Diptera, Chironomidae) iz Kairak-Kumskogo vodokhranilishcha [New larval forms of chironomids (Diptera, Chironomidae) from the Kairak-Kum Reservoir]. *Gidrobiologicheskii Zhurnal* **11**(2): 66-71.

Akhrorov, F. (1977) [10 May 1977] Novye vidy roda *Psectrocladius* (Diptera, Chironomidae) s Pamira i ikh metamorfoz. (New species of the genus *Psectrocladius* (Diptera, Chironomidae) from Pamir and their metamorphosis). *Zoologicheskii Zhurnal* **56**(4): 538-549.
[The above issue of the journal was received by the Zoological Institute in Leningrad (now St Petersburg), on the 10 May 1977, according to the card index of the library (Dr Andrey Przhiboro pers. comm. to P. Ashe), which is currently regarded as the earliest provable date of publication.]

Albrecht, O. (1924) [+31 December 1924] Die Chironomidenlarven des Mittersees bei Lunz (Nieder-Oesterreich). *Verhandlungen der Internationalen Vereinigung für theoretiische und angewandte Limnologie* **2**: 183-223.

Albu, P. (1964) [+31 December 1964] A new species of Chironomidae (Diptera) in the Rumanian fauna: *Cricotopus dobrogicus* n. sp. *Revue Roumaine de Biologie, Série de Zoologie* **9**(5): 307-312.

Albu, P. (1968) [3 January 1968] *Pseudosmittia mathildae* sp. n. (Diptera, Chironomidae). Pp 4-5. *In* Palmén, E. (ed.) *The Second International Symposium on Chironomid Research, Helsinki 1967. Annales Zoologici Fennici* **5**: 1-158.

Albu, P. (1970) [*6 April 1970] *Smittia antelobata*, o nouă specie din Familia Chironomidae (Diptera) [*Smittia antelobata*, a new species of the family Chironomidae (Diptera)].

Studii şi Cercetări de Biologie, Série de Zoologie **22**(2): 101-104.

Albu, P. (1972) [*15 February 1972] Două specii de chironomide noi pentru ştiinţă în Masivul Retezat [Two species of chironomids new to science from the Retezat Mountains]. *Studii şi Cercetări de Biologie, Série Biologie animală* **24**(1): 15-20.

Albu, P. (1974) [+31 December 1974] A new subgenus of the genus *Bryophaenocladius* and two new species (Diptera, Chironomidae). Pp. 9-12. *In* Brundin, L. (ed.) *Proceedings of the 5th International Symposium on Chironomidae, Abisko, 7-9 August 1973. Entomologisk Tidskrift Supplement* **95**.

Alexander, C. P. (1981) [31 March 1981] 22. Tanyderidae. Pp. 149-151. *In Manual of Nearctic Diptera*. Volume 1. Agriculture Canada Monograph **27**. 674 pp.
[Publication date is from the Evenhuis 1989 catalog.]

Allegrucci, G., Carchini, G., Convey, P. and Sbordoni, V. (2012) [+30 June 2012] Evolutionary geographic relationships among orthocladine chironomid midges from maritime Antarctic and sub-Antarctic islands. *Biological Journal of the Linnean Society* **106**(2): 258-274.

Alverdes, F. (1911) [28 February 1911] *Trichocladius marinus* n. sp., eine neue marine Chironomide aus den norwegischen Skärgaard. *Zeitschrift für Wissenschaftliche Insektenbiologie* **7**(2): 58-63.

Andersen, F. S. (1937) [28 July 1937] Ueber die Metamorphose der Ceratopogoniden und Chironomiden Nordost-Grönlands. *Meddelelser om Grønland* **116**(1): 1-95.

Andersen, T. (1997) [*12 March 1997] New species of *Diplosmittia* Sæther, 1981 from Costa Rica (Chironomidae, Orthocladiinae). *Acta Zoologica Academiae Scientiarum Hungaricae* **42**(2): 127-132.
[The paper was accepted on the 20th December 1996 but was almost certainly published in 1997 because in other issues in the same volume there is a delay of a few months between acceptance and publication.]

Andersen, T. and Contreras-Ramos, A. (1999) [15 July 1999] First record of *Antillocladius* Sæther from continental South America (Chironomidae, Orthocladiinae). *Acta Zoologica Academiae Scientiarum Hungaricae* **45**(2): 149-154.

Andersen, T. and Mendes, H. F. (2002) [1 July 2002] Neotropical and Mexican *Mesosmittia* Brundin, with the description of four new species (Insecta, Diptera, Chironomidae). *Spixiana* **25**(2): 141-155.

Andersen, T. and Mendes, H. F. (2004) [1 October 2004] *Irisobrillia longicosta* Oliver, 1985 (Diptera: Chironomidae: Orthocladiinae) taken in south Brazil. *Biota Neotropica* **4**(2): 109-113.
[The pagination of this paper is often given as 1-5 but in the online version of the journal it is given as 109-113.]

Andersen, T. and Mendes, H. F. (2007) [18 April 2007] Five enigmatic new orthoclad genera from Brazil (Diptera: Chironomidae, Orthocladiinae). Pp 17-52. *In* Andersen, T. (ed.) *Contributions to the systematics and ecology of aquatic Diptera: - a tribute to Ole A. Sæther*. The Caddis Press, Columbus, Ohio.
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Andersen, T. and Mendes, H. F. (2010) [31 March 2010] Order Diptera, family Chironomidae (with the exception of the tribe Tanytarsini). *Arthropod Fauna of the UAE* **3**: 564-598.

Andersen, T. and Mendes, H. F. (2012) [12 July 2012] *Miambera miae* n. gen., n. sp. from southern Brazil (Diptera: Chironomidae, Orthocladiinae). *Biota Neotropica* **12**(1): 105-110.
[The publication of the printed version of volume 12 (part 1) is the 12th July 2012 (Dr Humberto Mendes pers. comm. to P. Ashe.]

Andersen, T. and Mendes, H. F. (2012) [12 July 2012] A new species of *Rheocricotopus* Brundin from Mato Grosso, Brazil (Diptera: Chironomidae, Orthocladiinae). *Biota Neotropica* **12**(1): 111-116.
[The publication of the printed version of volume 12 (part 1) is the 12th July 2012 (Dr Humberto Mendes pers. comm. to P. Ashe.]

Andersen, T. and Mendes, H. F. (2012) [12 July 2012] *Maximberus maxi* n. gen., n. sp. from southern and southeastern Brazil (Diptera: Chironomidae, Orthocladiinae). *Biota Neotropica* **12**(1): 117-122.
[The publication of the printed version of volume 12 (part 1) is the 12th July 2012 (Dr Humberto Mendes pers. comm. to P. Ashe.]

Andersen, T. and Sæther, O. A. (1993) [1 July 1993] *Lerheimia*, a new genus of Orthocladiinae from Africa (Diptera, Chironomidae). *Spixiana* **16**(2): 105-122.

Andersen, T. and Sæther, O. A. (1994) [29 March 1994] *Colosmittia clavata* gen. n., sp. n., a new orthoclad from the West Usambara Mountains, Tanzania (Diptera: Chironomidae). *Journal of the Kansas Entomological Society* **66**(4): 439-443.
[Published in the last issue (October) for 1993 which was not published until the 29th March 1994.]

Andersen, T. and Sæther, O. A. (1994) [1 April 1994] *Usambaromyia nigrala* gen. n., sp. n., and Usambaromyiinae, a new subfamily among the Chironomidae (Diptera). *Aquatic Insects* **16**(1): 21-29.

Andersen, T. and Sæther, O. A. 2005 [26 April 2005] *Onconeura*, a new Neotropical orthoclad genus (Chironomidae, Orthocladiinae). *Zootaxa* **957**: 1-16.

Andersen, T. and Schnell, Ø. A. (2000) [10 February 2000] New species of *Bryophaenocladius* Thienemann, 1934 from Tanzania, with bare squama (Diptera: Chironomidae). *Aquatic Insects* **22**(1): 48-57.

Andersen, T. and Wang, X. (1997) [1 July 1997] Darkwinged *Heleniella* Gowin, 1943 from Thailand and China (Insecta, Diptera, Chironomidae, Orthocladiinae). *Spixiana* **20**(2): 151-160.

Andersen, T., Contreras-Ramos, A. and Spies, M. (2000) [+31 December 2000] Chironomidae (Diptera). Pp 581-591. *In* Llorente Bousquets, J. E., González Soriano, E. and Papavero, N. (eds): *Biodiversidad, taxonomía y biogeografía de artrópodos de México: hacia una síntesis de su conocimiento* **2**: 581-591. Universidad Nacional Autónoma de México, Mexico City. xvi + 676 pp.

Andersen, T., Mendes, H. F. and Hagenlund, L.K. (2011) [12 September 2011] A new species of *Colosmittia* Andersen et Sæther from Costa Rica (Chironomidae: Orthocladiinae). *Biota Neotropica* **11**(3): 211-213.
[The printed version of Volume 11 (Issue 3) was published on the 12th September 2012 (Humberto Mendes pers. comm. to P. Ashe).]

Andersen, T., Mendes, H. F. and Pinho, L.C. (2010) [10 September 2010] Four new species of *Saetherocladius* Andersen *et* Mendes from Mata Atlântica, Brazil (Diptera: Chironomidae: Orthocladiinae). *Zootaxa* **2608**: 45-56.

Andersen, T., Mendes, H. F. and Pinho, L.C. (2012) [6 March 2012] A new species of *Saetherocryptus* Andersen *et* Mendes, 2007 from Brazil (Diptera: Chironomidae, Orthocladiinae). *Biota Neotropica* **11**(4): 73-76.
[The publication of the printed version of volume 11 (part 4) is the 6th March 2012 (Dr Humberto Mendes pers. comm. to P. Ashe.]

Andersen, T., Mendes, H. F. and Pinho, L.C. (2012) [4 May 2012] Two new species of *Saetherolabis* Andersen *et* Mendes, 2007 from Brazil (Diptera: Chironomidae, Orthocladiinae). *Zootaxa* **3300**: 62-68.

Andersen, T., Sæther, O. A. and Mendes, H. F. (2010) [14 May 2010] Neotropical *Allocladius* Kieffer, 1913 and *Pseudosmittia* Edwards, 1932 (Diptera: Chironomidae). *Zootaxa* **2472**: 1-77.

Armitage, P. D. (1986) [≤21 April 1986] A new species of the genus *Limnophyes* Eaton from S. E. England (Diptera, Chironomidae). *In* Fittkau, E. J. (ed.): *Beiträge zur Systematik der Chironomidae, Diptera. Spixiana Supplement* **11**: 139-142.
[Published in 1986 and not on the 30 December 1985 as indicated on the title page. Records in the library of the Zoologische Staatssammlung, Munich, show that Supplement 11 was available for distribution on the 21 April 1986]

Armitage, P. D. (1986) [1 August 1986] A redescription of male *Eukiefferiella atlantica* Storå (Chironomidae, Diptera) based on type material and recently collected specimens from Tenerife, Canary Islands. *Aquatic Insects* **8**(2): 105-109.

Armitage, P. D. (1987) [4 March 1987] A new species of the genus *Bryophaenocladius* Thienemann, (Diptera: Chironomidae) from Tenerife, Canary Islands. *Aquatic Insects* **9**(1): 33-38.

Ashe, P. (1983) [2 December 1983] A catalogue of chironomid genera and subgenera of the world including synonyms (Diptera: Chironomidae). *Entomologica Scandinavica Supplement* **17**: 1-68.

Ashe, P. (1990) [+31 December 1990] Ecology, zoogeography and diversity of Chironomidae (Diptera) in Sulawesi with some observations relevant to other aquatic insects. Pp 261-268. *In* Knight, W. J. and Holloway, J. D. (eds) *Insects and the rain forests of South East Asia (Wallacea).* The Royal Entomological Society of London, London.

Ashe, P. and Cranston, P. S. (1990) [30 November 1990] Family Chironomidae. Pp 113-355. *In* Soós, Á. and Papp, L. (eds) *Catalogue of Palaearctic Diptera. Volume* **2**. Akadémiai Kiadó, Budapest.
[According to Dr Laszlo Papp (pers. comm. to P. Ashe), the Akadémiai Kiadó (Hungarian) edition of Volume 2 was published on the 30 November 1990. The

Elsevier (Dutch) edition, irrespective of the fact that it says 1991 on the inner title page, was published at the same time as the Hungarian edition and was supplied to Elsevier in Holland, for sale in western countries, by the Akadémiai Kiadó in Hungary.]

Ashe, P. and Murray, D. A. (1980) [≤10 April 1980] *Nostococladius*, a new subgenus of *Cricotopus* (Diptera : Chironomidae). Pp 105-111. *In* Murray, D. A. (ed.) *Chironomidae - Ecology, Systematics, Cytology and Physiology. Proceedings of the 7th International Symposium on Chironomidae, Dublin, August 1979*. Pergamon Press, Oxford. 354 pp.

[Dr P. Ashe's personal copy of the above symposium volume was received on the 10th April 1980 which is probably the date the consignment of copies from the publisher, for distribution to symposium attendees, arrived in University College Dublin. The above date is currently the earliest provable date of publication.]

Ashe, P. and O'Connor, J. P. (2000) [21 August 2000] *Metriocnemus (Crymaleomyia) brunneri* n. subgen., n. sp., from glacial melt-water in the Karakorum Mountains, Pakistan (Insecta: Diptera: Chironomidae: Orthocladiinae). Pp 25-34. *In* Hoffrichter, O. (ed.) *Late 20th century research on Chironomidae: an anthology from the 13th International Symposium on Chironomidae, Freiburg, 5-9 September 1997*. Shaker Verlag, Aachen. 661pp.

[According to Dr Odwin Hoffrichter (pers. comm. to P. Ashe) the Proceedings from the Freiburg Symposium were published on the 21 August 2000.]

Ashe, P. and O'Connor, J. P. (2002) [31 January 2002] A review of the known associations, commensal, phoretic and ectoparasitic, involving the aquatic stages of Chironomidae (Diptera) and Chironomidae. Pp 467-480. *Proceedings of the 10th International Symposium on Trichoptera. Nova Supplementa Entomologica* **15**.

Ashe, P. and O'Connor, J. P. (2007) [18 April 2007] A new genus and species of Orthocladiinae (Diptera: Chironomidae) from Sulawesi, Indonesia. Pp 53-59. *In* Andersen, T. (ed.) *Contributions to the systematics and ecology of aquatic Diptera: - a tribute to Ole A. Sæther*. The Caddis Press, Columbus, Ohio.

[According to Prof. Trond Andersen (pers. comm. to P. Ashe) the volume was published on the 18 April 2007.]

Ashe, P. and O'Connor, J. P. (2009) [30 December 2009] *A World Catalogue of Chironomidae (Diptera). Part 1. Buchonomyiinae, Chilenomyiinae, Podonominae, Aphroteniinae, Tanypodinae, Usambaromyiinae, Diamesinae, Prodiamesinae and Telmatogetoninae*. Irish Biogeographical Society & National Museum of Ireland, Dublin. 445pp.

Ashe, P. and O'Connor, J. P. (2012) [In Press] Additions and corrections to Part 1 of 'A World Catalogue of Chironomidae (Diptera)'. *In* Ekrem, T., Stur, E and Aagaard, K. (eds): *Proceedings of the 18th International Symposium on Chironomidae, Trondheim, 4-6 July 2011. Fauna Norvegica* **31**.

[The above publication is in press but the pagination is not yet known.]

Ashe, P. and Spies, M. (2011) [10 June 2011] A chronological bibliography, with dates of publication, of J. J. Kieffer's works on Chironomidae (Diptera). Pp 2-14. *In* Wang, X. and Liu, W. (eds) *Contemporary Chironomid Studies —Proceedings of the 17th International Symposium on Chironomidae (July 6-9, 2009 Nankai University, China)*. Nankai University Press. 412 pp, 18 plates.
[According to Dr Xinhua Wang (pers. comm. to P. Ashe) the proceedings were published on the 10 June 2011.]

Ashe, P., Murray, D. A. and Reiss, F. (1987) [*15 July 1987] The zoogeographical distribution of Chironomidae (Insecta: Diptera). *Annales de Limnologie* **23**(1): 27-60.

Azar, D. and Nel, A. (2012) [22 February 2012] Evolution of hematophagy in "non-biting midges" (Diptera: Chironomidae). *Terrestrial Arthropod Reviews* **5**(1): 15-34.
[Printed version of volume **5**(1) was published on the 22 February 2012 (Dr Margarita C. Cuevas Gozalo pers. comm. to P. Ashe).]

Baranov, V. A. (2011) [31 October 2011] New and rare species of Orthocladiinae (Diptera, Chironomidae) from the Crimea, Ukraine. *Vestnik Zoologi* **45**(5): 405-410.

Barendrecht, G. & Kruseman Jr, G., (1957) [17 April 1957] A propos du centenaire du Tijdschrift voor Entomologie. *Tijdschrift voor Entomologie* **100**: 1-4.

Barthelmes, D. (1964) [+31 December 1964] Metamorphose und Ökologie der Chironomide *Propsilocerus lusatiensis* n. sp. (Diptera, Nematocera). *Internationale Revue der gesamten Hydrobiologie und Hydrographie* **49**(4): 611-628.

Becher, E. (1886) [*6 August 1886] Die internationale Polarforschung 1882-1883. Die Oesterreichische Polarstation Jan Mayen ausgerüstet durch seine Excellenz Graf Hanns Wilczek geleitet vom K. K. Corvetten-Capitan Emil Edlen von Wohlgemuth. F. Insekten von Jan Mayen. Gesammelt von Dr. F. Fischer, Arzt der österreichischen Expedition auf Jan Mayen. *Beobachtungs-Ergebnisse / Die Internationale Polarforschung, 1882-1883,* **3**: 59-66.

Beck Jr., W. M. and Beck, E. C. (1964) [+30 September 1964] New Chironomidae from Florida (Diptera). *Florida Entomologist* **47**(3): 201-207.

Becker, T. (1908) [+31 July 1908] Dipteren der Kanarischen Inseln. *Mitteilungen aus dem Zoologischen Museum in Berlin* **4**: 1-180.

Bequaert, M. and Goetghebuer, M. (1914) [2 January 1914] Deux Chironomides marins capturés sur le littoral belge (*Clunio marinus* Haliday et *Camptocladius thalassophilus* nov. spec.). *Annales de la Société Entomologique de Belgique* **57**: 370-377.
[This reference is usually cited as 1913 which is incorrect because "2-I 1914" (for 2 January 1914) is printed on the bottom of pp. 369 and 385 and therefore 1914 is the correct year.]

Berczik, Á. (1959) [+31 December 1959] Chironomidenlarven aus dem Gebiete des Gran Flusses (Tschechoslowakei). *Annales Universitatis Scientiarum Budapestinensis de Rolando Eötvös Nominatae, Sectio Biologica* **2**: 43-48.

Bezzi, M. (1913) [5 February 1913] *Clunio adriaticus* Schiner, var. *balearicus* nov. (Diptères.). *Archives de Zoologie Expérimentale et Générale* **51**(4): 501-519.

Bezzi, M. (1916) [15 April 1916] Sur un genre nouveau de Diptère subaptère des cavités souterrains du Djurdjura. *Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord* **7**: 90-99.

Bhattacharyay, S. and Chaudhuri, P.K. (1988) [+31 December 1988] *Nanocladius* (*Nanocladius*) *insulatus* sp. nov., a montane orthoclad midge from India (Diptera: Chironomidae). *Burdwan University Science Journal* **4-5**: 60-62.
[The bottom of the title page has the wording "Vol. 4-5, 1987-88" which indicates that the paper was not published in 1987. Dr Abhijit Mazumdar (pers. comm to P. Ashe) states that the volume was published in 1988 but the day or month of publication is not specified and until proven otherwise the +31 December 1988 is accepted here as the date of publication.]

Bhattacharyay, S. and Chaudhuri, P. K. (1990) [30 September 1990] Two Indian species of *Pseudorthocladius* Goetghebuer (Diptera, Chironomidae). *Revista Brasileira de Entomologia* **34**(2): 331-335.

Bhattacharyay, S., Ali, A. and Chaudhuri, P. K. (1991) [+31 December 1991] Orthoclads of tribe Orthocladiini (Diptera : Chironomidae) from India. *Beiträge zur Entomologie* **41**(2): 333-349.

Bhattacharyay, S., Chattopadhyay, S. and Chaudhuri, P. K. (1993) [25 March 1993] Four new species of *Chaetocladius* (Diptera, Chironomidae) from India. *European Journal of Entomology* **90**(1): 87-94.

Bhattacharya, S., Dutta, T. K. and Chaudhuri, P. K. (1986) [+31 October 1986] A study on Orthocladiinae (Diptera : Chironomidae) in India. Genus *Thienemannia* Kieffer. *Journal of the Bengal Natural History Society* (New Series) **4**(1): 40-48.
[The paper appeared in the June 1985 issue which was not published until October 1986 and therefore the publication date is the +31 October 1986.]

Bigot, J. M. F. (1888) [15 February 1888] Diptères [section v.]. *Mission scientifique du Cap Horn 1882-1883*. Tome VI. Zoologie. Pt 2. Insectes. Gauthier-Villars et Fils, Paris. 45pp., 4 pls.
[Publication date is from Evenhuis (1997: 92).]

Birula, A. (1934) [+31 December 1934] Über das Vorkommen der Chironomiden-Gattung *Clunio* im Kara-Busen (Südküste des Kara-Meeres). *Internationale Revue der gesamten Hydrobiologie und Hydrographie* **31**(5/6): 436-439.

Boesel, M. W. (1983) [15 June 1983] A review of the genus *Cricotopus* in Ohio, with a key to adults of species of the northeastern United States (Diptera, Chironomidae). *Ohio Journal of Science* **83**(3): 74-90.

Boesel, W. M. and Winner, R. W. (1980) [31 July 1980] Corynoneurinae of northeastern United States, with a key to adults and observations on their occurrence in Ohio (Diptera: Chironomidae). *Journal of the Kansas Entomological Society* **53**(3): 501-508.

Boheman, C. H. (1865) [+31 December 1865] Spetsbergens insekt-fauna. *Öfversigt af Kongl. Vetenskaps-Akademiens Förhandlingar* **22**: 563-577.

Boothroyd, I. K. G. (1990) [23 October 1990] Additions to the Chironomidae (Diptera: Insecta) of New Zealand: *Cricotopus* van der Wulp species from a North Island

stream. *New Zealand Journal of Zoology* **17**(3): 419-436.

Boothroyd, I. K. G. (1994) [28 September 1994] Description of *Naonella* n. gen. (Diptera: Chironomidae: Orthocladiinae). *New Zealand Journal of Zoology* **21**(3): 309-315.

Boothroyd, I. K. G. (1999) [13 September 1999] Description of *Kaniwhaniwhanus* gen. n. (Diptera: Chironomidae: Orthocladiinae) from New Zealand. *New Zealand Journal of Marine and Freshwater Research* **33**(3): 341-349.

Boothroyd, I. K. G. (2002) [14 November 2002] *Cricotopus* and *Paratrichocladius* (Chironomidae: Insecta) in New Zealand, with description of *C. hollyfordensis* n. sp., and redescriptions of adult and immature stages of *C. zealandicus* and *P. pluriserialis*. *New Zealand Journal of Marine and Freshwater Research* **36**(4): 775-788

Boothroyd, I. K. G. (2005) [+31 January 2005] A new species of *Naonella* Boothroyd (Chironomidae: Orthocladiinae) from New Zealand. *New Zealand Entomologist* **27**: 11-15.

[The paper is in volume 27 (no separate issues) for 2004 which was published in January 2005]

Boothroyd, I. K. G. and Cranston, P. 1995) [1 January 1995] Two Orthocladiinae (Chironomidae) genera common to New Zealand and Australia: *Pirara* n. gen. and *Eukiefferiella* Thienemann. Pp 389-408. *In* Cranston, P. S. (ed.) *Chironomids: from genes to ecosystems, Proceedings of the 12th International Symosium on Chironomidae, Canberra, January 23-26, 1994.* CSIRO Australia, East Melbourne.

[According to Dr Peter Cranston (pers. comm. to P. Ashe), the Proceedings from the Canberra Symposium were available for distribution on the 1 January 1995 which is considered to be the actual date of publication.]

Borkent, A. (2012) [23 July 2012] The pupae of the families of Culicomorpha - morphology and a new phylogenetic tree. *Zootaxa* **3396**: 1-98.

Botnariuc, N. and Albu, P. (1956) [*31 October 1956] *Propsilocerus danubialis* n.sp. (Diptera, Tendipedidae). *Buletin Ştiinţific Academia Republicii Populare Române* **8**(2): 497-504.

Botnariuc, N. and Cîndea-Cure, V. (1954) [+31 December 1954] Noi larve de Tendipedidae din R.P.R. (Nouvelles larves de Tendipedidae dans la Rèpublique Populaire Roumaine). *Buletin Ştiinţific Academia Republicii Populare Române* **6**(4): 1233-1248.

Botnariuc, N. and Cure, V. (1956) [22 December 1956] Noi larve de Tendipedide găsite în fauna Republicii Populare Romîne. *Analele Institutului de Cercetari Piscicole al Romaniei* **17**: 257-271.

Brèthes, J. (1913) [+31 December 1913] Description d'un nouveau Chironomidæ du Chili. *Boletin del Museo Nacional de Chile* **4**(2): 219-220.

[A second (non-chironomid paper) by Brèthes in the same issue as the above paper was sent by him on the 25 December 1912 from Buenos Aires presumably by post to Santiago in Chile and publication on or before the 31 December 1912 is highly improbable. The issue was probably published in the first quarter of 1913 but currently the earliest provable date of publication is the +31 December 1913.]

Brodin, Y., Lundström, J. O. and Paasivirta, L. (2008) [27 November 2008] *Tavastia yggdrasilia*, a new orthoclad midge (Diptera: Chironomidae) from Europe. *Aquatic Insects* **30**(4): 261-267.

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[The full pagination of Verrall is 20-27 but the paper was split between two consecutive issues of the journal with pp. 20-24, which includes one new chironomid species, appearing in the January issue dated as *3 January 1912. The remaining pages, pp. 25-27, appeared in the February issue dated as *5 February 1912.]

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[The volume containing the above article was received by the Zoological Institute in Leningrad (now St Petersburg), on the 23 September 1980, according to the card index of the library (Dr Andrey Przhiboro pers. comm. to P. Ashe), which is currently regarded as the earliest provable date of publication.]

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ADDENDUM

Genus **ACRICOTOPUS** KIEFFER

The various *dilatatus* names below are removed from synonymy with *Psectrocladius* (*Allopsectrocladius*) *obvius* (WALKER, 1856) on Catalogue page 509 and transferred to Catalogue page 112, between the existing synonyms *coaequatus* (WALKER, 1856) and *sagittalis* (KIEFFER, 1908), as junior synonyms of *Acricotopus lucens* (ZETTERSTEDT, 1850). Most of the proofs were corrected and the page numbers finalised before this error was detected. See also the taxonomic note on *dilatatus* (Wulp, 1859) on Catalogue page 743.

dilatatus (WULP, 1859): *Tijdschrift voor Entomologie* **2**: 167 (*Chironomus*). Typelocality: [Netherlands] "'s Gravenhage". Senior primary homonym of *Chironomus dilatatus* Wulp, 1859 (*Bouwstoffen voor eene fauna van Nederland* **3**: 7) and *Chironomus dilatatus* Wulp, 1859 (*Bouwstoffen voor eene fauna van Nederland* **3**: 32). [**Note**]

dilatus; *dilitatus*: incorrect subsequent spellings.

dilatatus (WULP, 1859): *Bouwstoffen voor eene fauna van Nederland* **3**: 7 (*Chironomus*; as "*Dilatatus*"). Type-locality: [Publication Title] "Nederland" [= Netherlands]; [p. 7] "'s Gravenhage". **Preoccupied**. Junior primary homonym of *Chironomus dilatatus* Wulp, 1859 (*Tijdschrift voor Entomologie* **2**: 167).

dilatatus (WULP, 1859): *Bouwstoffen voor eene fauna van Nederland* **3**: 32 (*Chironomus*; as "*Dilatatus*"). Type-locality: [Publication Title] "Nederland" [= Netherlands]. **Preoccupied**. Junior primary homonym of *Chironomus dilatatus* Wulp, 1859 (*Tijdschrift voor Entomologie* **2**: 167).

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